

ITD D6 GIBBONSVILLE EMPLOYEE HOUSING SITE DEVELOPMENT



PROJECT NAME:
**ITD D6 GIBBONSVILLE
EMPLOYEE HOUSING
SITE DEVELOPMENT**
GIBBONSONVILLE, ID

SHEET TITLE:
COVER SHEET

DRAWING SCALE APPLIES
TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY
ALL DIMENSIONS & CONDITIONS
SHOWN or IMPLIED

DO NOT DISTRIBUTE PARTIAL SETS OF
DRAWINGS or SPECIFICATIONS

REVISION DATE

CLIENT
PROJ.
NUMBER:

ARCH.
JOB
NUMBER: 22589

SHEET
ISSUED
DATE: MAY 2023

SHEET
G100

GIBBONSONVILLE, ID

DRAWING INDEX

SHEET NUMBER	SHEET TITLE
GENERAL SHEETS	
G100	COVER SHEET
SITE PLANS	
SP100	ARCHITECTURAL SITE PLAN
CIVIL	
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FLOOR PLANS	
A100	OVERALL FLOOR PLANS
STRUCTURAL	
S1.0	FOUNDATION PLAN
MECHANICAL AND PLUMBING	
P0.0	MECHANICAL PLANS
P1.0	MECHANICAL PLANS
ELECTRICAL	
E0.0	COVER SHEET
SE1.0	ELECTRICAL SITE PLAN
E1.0	POWER PLAN
E2.0	ONLINE DIAGRAM & TRENCH DETAIL

CONSULTANTS

STRUCTURAL ENGINEER

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FAX (208) 227-8405

ELECTRICAL & PLUMBING ENGINEER

MUSGROVE ENGINEERING, P.A.
645 WEST 25TH STREET
IDAHO FALLS, ID 83402
PHONE: 208 523-2862

CIVIL ENGINEER

NVS
690 INDUSTRY WAY, SUITE 10
MERIDIAN, IDAHO 83642
(208) 342-5400

CONTACTS

OWNER

IDAHO TRANSPORTATION DEPARTMENT (ITD)
11331 WEST CHINDEN BLVD.
BOISE, IDAHO 83714
CONTACT: JACOB JACKSON
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ARCHITECT

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122 S. MAIN STREET SUITE 1
POCATELLO, ID 83240
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DEFERRED SUBMITTALS

MHU or MANUFACTURED HOME UNIT PURCHASED BY OWNER AND NOT IN CONTRACTOR'S
SCOPE. MHU TO BE SITE DELIVERED, HOOK-UP, CRAWL SPACE SKIRTING, AND LANDING
WITH STAIRS BY MHU PROVIDER.

BUILDING DESCRIPTION

SEE FULL DRAWING SET FOR MANUFACTURED HOME UNITS WITHIN ITD SITE. THE
MANUFACTURED HOME UNIT(S) ARE PURCHASED BY THE OWNER (ITD). THE
MANUFACTURED HOME PROVIDER WILL DELIVER THE UNIT(S), HOOKUP THE UNIT(S)
AND PROVIDE UNIT(S) "BY OTHERS" ITEMS AS PROVIDED WITHIN FULL DRAWING SET.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR'S TO DEVELOP AND PROVIDE UNIT(S)
PAD WITH NEW MECHANICAL, PLUMBING AND ELECTRICAL PER THE DRAWINGS. IT IS
THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW FULL JURISDICTION or IDOPL
PERMITTING REQUIREMENTS.

BLDG. INFO.

ACTUAL MHU AREA: 933 SF
OCCUPANCY CLASSIFICATION: [R] Residential (Manufactured Home)

Manufactured Home: Homes built on/after June 15, 1976; federalized construction
to one single, nationwide standard (24 CFR §3280) under authority of the National
Manufactured Housing Construction and Safety Standards Act of 1974, signed into
law by President Ford

PERMITTING THROUGH IDOPL (IDAHO DIVISION OF OCCUPATIONAL AND
PROFESSIONAL LICENSES). REQUIRED PERMITTING:

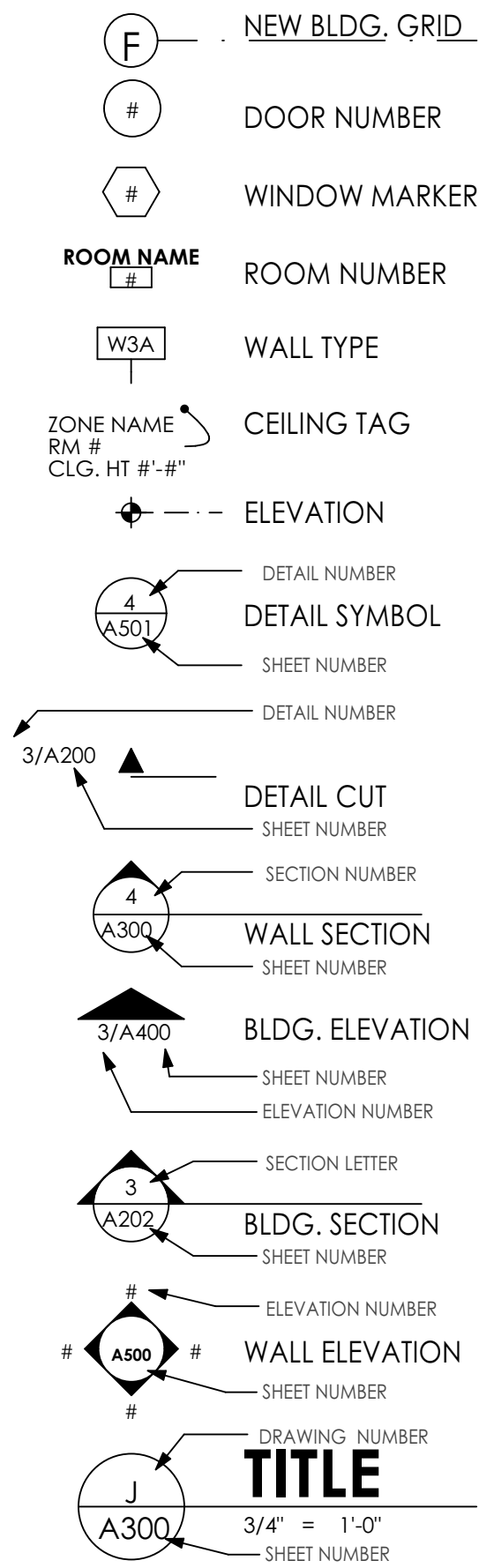
- FOUNDATION PERMIT
- INSTALLATION PERMIT and INSTALLATION TAG
- ON-SITE MECHANICAL, PLUMBING AND ELECTRICAL PERMITTING

REF. INFO AT:
idahohousingassociation.org
dbs.idaho.gov

LOCATION MAP



SYMBOLS



[Red dashed line] = DEMOLITION

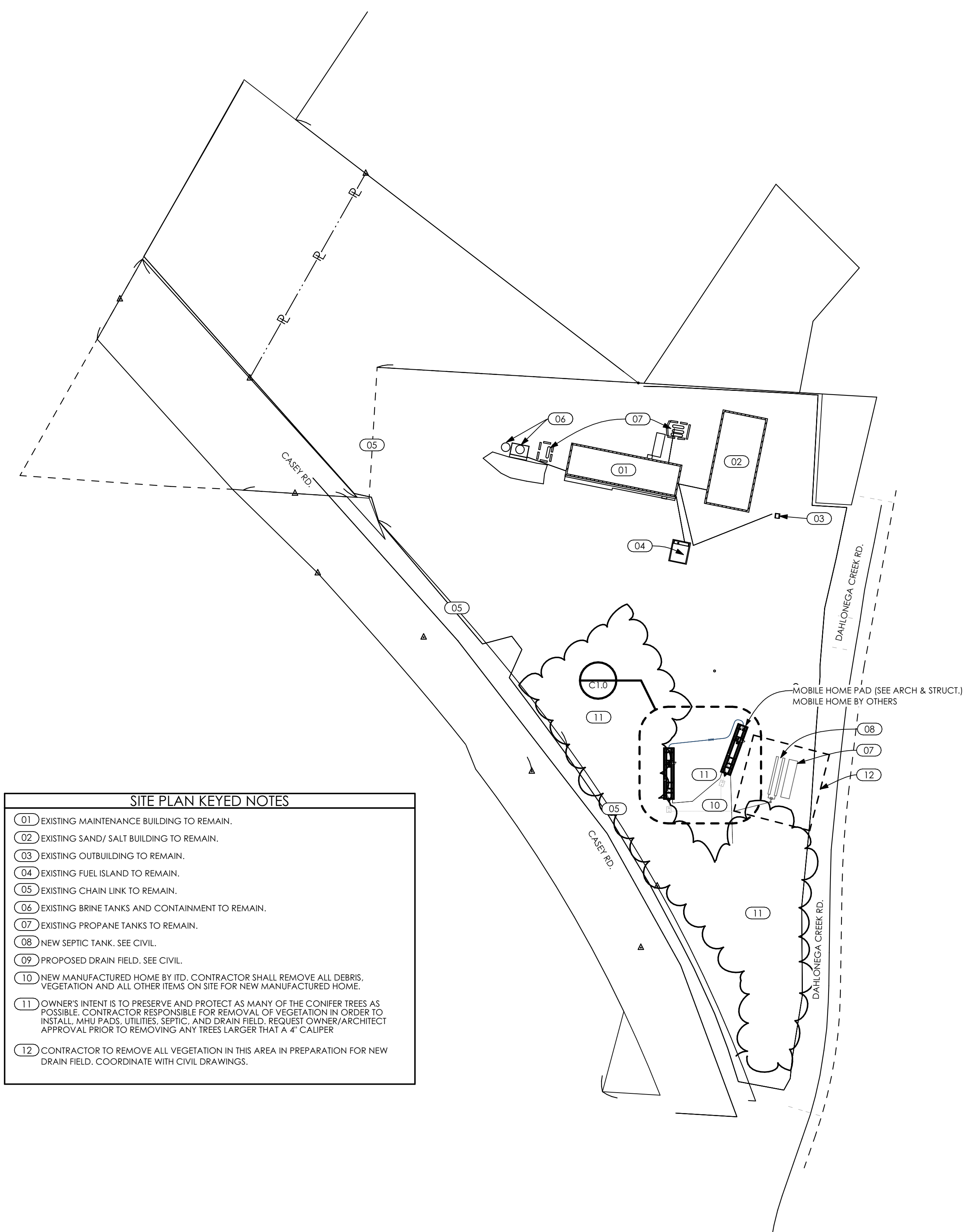
[Grey rectangle] = EXISTING

[Black rectangle] = NEW CONSTRUCTION

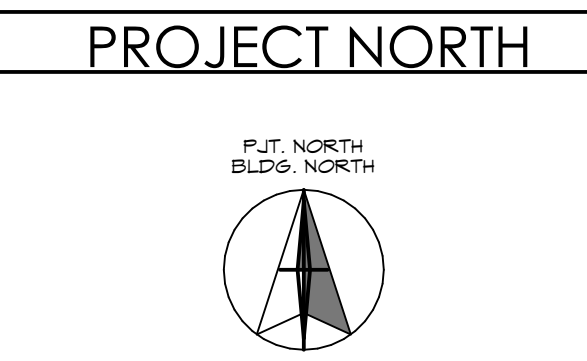
[Blue dashed line] = ADD ALT (SCOPE)

ABBREVIATIONS

ACPS	ACOUSTIC CEILING PANEL SYSTEM	HVAC	HEATING, VENTING & AIR CONDITIONING
AC	AIR CONDITIONING	INSUL	INSULATION
ADJ	ADJUSTABLE	INT	INTERIOR
AFF	ABOVE FINISH FLOOR	LAM	LAMINATED
ALT	ALTERNATE	LOC	LOCATION
ALUM	ALUMINUM	LRG	LARGE
AV	AUDIO/ VISUAL	MAS	MASONRY
BRD	BOARD	MAX	MAXIMUM
BLDG	BUILDING	MECH	MECHANICAL
BTM	BOTTOM	MTL	METAL
CAB	CABINET	MANUF	MANUFACTURER
CG	CORNER GUARD	MHU	MANUFACTURED HOME UNIT
CJ	CONTROL JOINT	MIN	MINIMUM
CLG	CEILING	MISC	MISCELLANEOUS
CLR	CLEAR	NA	NOT APPLICABLE
CMU	CONCRETE MASONRY UNIT	NO	NUMBER
COL	COLUMN	NOM	NOMINAL
CONC	CONCRETE	NTS	NOT TO SCALE
CONN	CONNECTION	OC or	ON CENTER OR CENTER LINE
CONT	CONTINUOUS	OFCI	OWNER FURNISHED - CONTRACTOR INSTALLED
DEMO	DEMOLITION	PT	PRESSURE TREATED
DTL	DETAIL	PART BRD	PARTICLE BOARD
DF	DRINKING FOUNTAIN	PLAN	PLASTIC LAMINATE
DIA	DIAMETER	PEJ	PETROLEUM EXPANSION JOINT
DIM	DIMENSION	PLY	PLYWOOD
DISP	DISPENSER	PRE-FIN	PRE-FINISHED
DR	DOOR	PWR	POWER
DWG	DRAWING	RCP	REFLECTED CEILING PLAN
DWR	DRAWER	RD	ROOF DRAIN
EA	EACH	REF	REFERENCE
EF	EXHAUST FAN	REINF	REINFORCEMENT
EIFS	EXT. INSUL. & FIN. SYSTEM	REQ	REQUIRED
EJ	EXPANSION JOINT	RM	ROOM
ELEC	ELECTRICAL	SHT	SHEET
EMER	EMERGENCY	SHTG	SHEATHING
EQ	EQUAL	SIM	SIMILAR
EQUIP	EQUIPMENT	SPEC	SPECIFICATIONS
ETR	EXISTING TO REMAIN	SQ	SQUARE
EXP	EXPOSED	SAN	SANITARY SEWER
EXPAN	EXPANSION	SS	SOLID SURFACE
EXT	EXTERIOR	SST	STAINLESS STEEL
FD	FLOOR DRAIN	STL	STEEL
FE	FIRE EXTINGUISHER	STOR	STORAGE
FEC	FIRE EXTINGUISHER CABINET	STRUCT	STRUCTURAL
FF	FINISH FLOOR	SUSP	SUSPENDED
FG	FINISH GRADE	TEMP	TEMPERATURE
FLR	FLOOR (ING)	TERM	TERMINATION
FTG	FOOTING	TOF	TOP OF FOOTING
GA	GAUGE	TOB	TOP OF BEARING
GALV	GALVANIZED	TYP	TYPICAL
GL	GLASS	VERT	VERTICAL
HC	HOLLOW CORE	VT	VINYL TILE
HM	HOLLOW METAL	w/	WITH
MHU	MANUFACTURED HOME UNIT	w/o	WITHOUT
HORIZ	HORIZONTAL	WD	WOOD
HR	HOUR	WP	WATER PROOF



- SITE PLAN KEYED NOTES**
- 01 EXISTING MAINTENANCE BUILDING TO REMAIN.
 - 02 EXISTING SAND/ SALT BUILDING TO REMAIN.
 - 03 EXISTING OUTBUILDING TO REMAIN.
 - 04 EXISTING FUEL ISLAND TO REMAIN.
 - 05 EXISTING CHAIN LINK TO REMAIN.
 - 06 EXISTING BRINE TANKS AND CONTAINMENT TO REMAIN.
 - 07 EXISTING PROPANE TANKS TO REMAIN.
 - 08 NEW SEPTIC TANK. SEE CIVIL.
 - 09 PROPOSED DRAIN FIELD. SEE CIVIL.
 - 10 NEW MANUFACTURED HOME BY ITD. CONTRACTOR SHALL REMOVE ALL DEBRIS, VEGETATION AND ALL OTHER ITEMS ON SITE FOR NEW MANUFACTURED HOME.
 - 11 OWNER'S INTENT IS TO PRESERVE AND PROTECT AS MANY OF THE CONIFER TREES AS POSSIBLE. CONTRACTOR RESPONSIBLE FOR REMOVAL OF VEGETATION IN ORDER TO INSTALL MHU PADS, UTILITIES, SEPTIC, AND DRAIN FIELD. REQUEST OWNER/ARCHITECT APPROVAL PRIOR TO REMOVING ANY TREES LARGER THAT A 4" CALIPER
 - 12 CONTRACTOR TO REMOVE ALL VEGETATION IN THIS AREA IN PREPARATION FOR NEW DRAIN FIELD. COORDINATE WITH CIVIL DRAWINGS.



DBS STAMP

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**ITD D6 GIBBONSVILLE
EMPLOYEE HOUSING
SITE DEVELOPMENT**
GIBBONSVILLE, ID

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SITE PLAN**

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REVISION	DATE

CLIENT PROJ. NUMBER:	
ARCH. JOB NUMBER:	22589
SHEET ISSUED DATE:	MAY 2023
SHEET	SP100

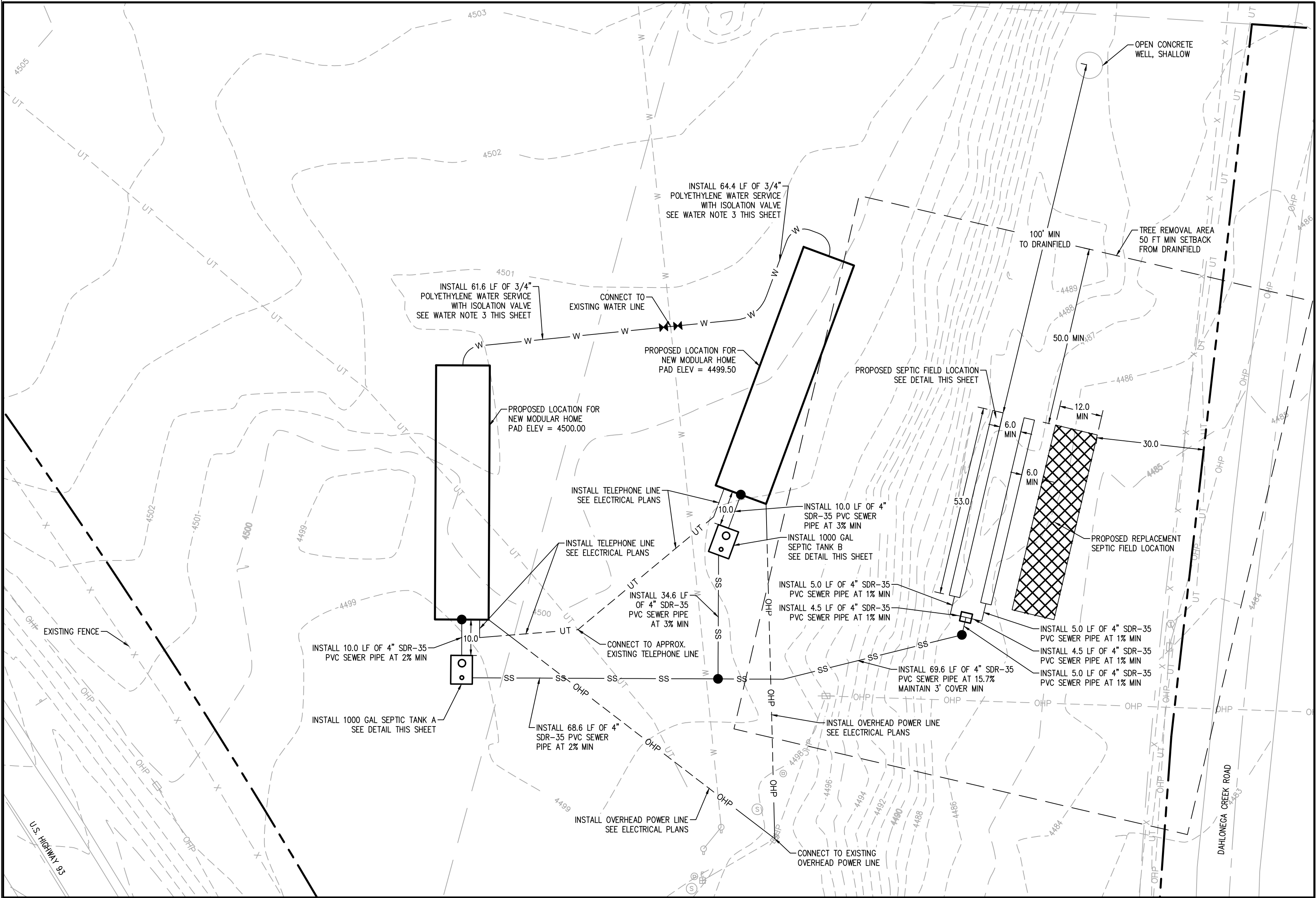
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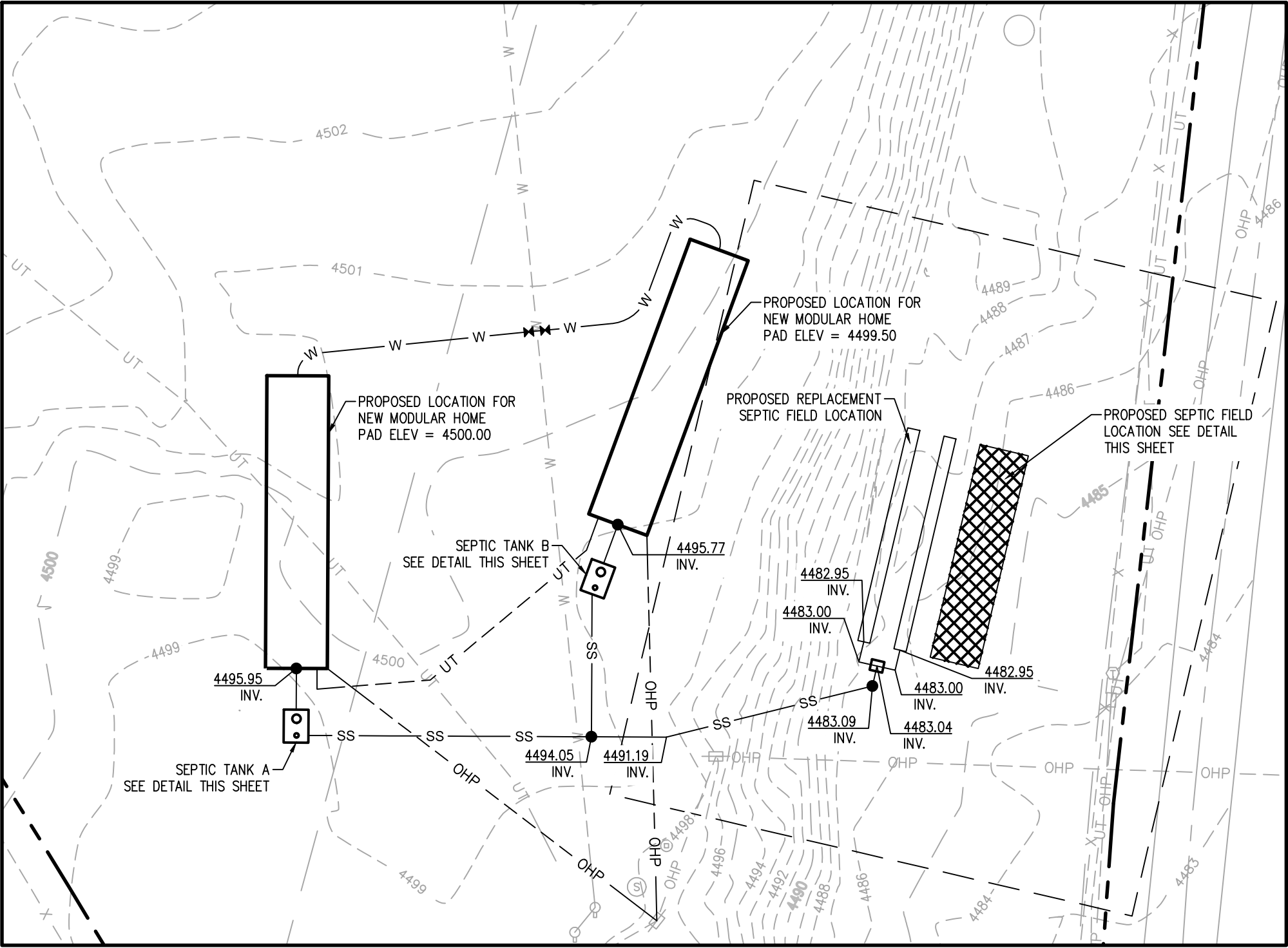
122 South Main Street Pocatello, Idaho 83204 Tel. (208) 222-3741 Fax (208) 222-3792

REGISTERED PROFESSIONAL ARCHITECT
AR-985241
05/18/2023
STATE OF IDAHO
CHARLES DEESON

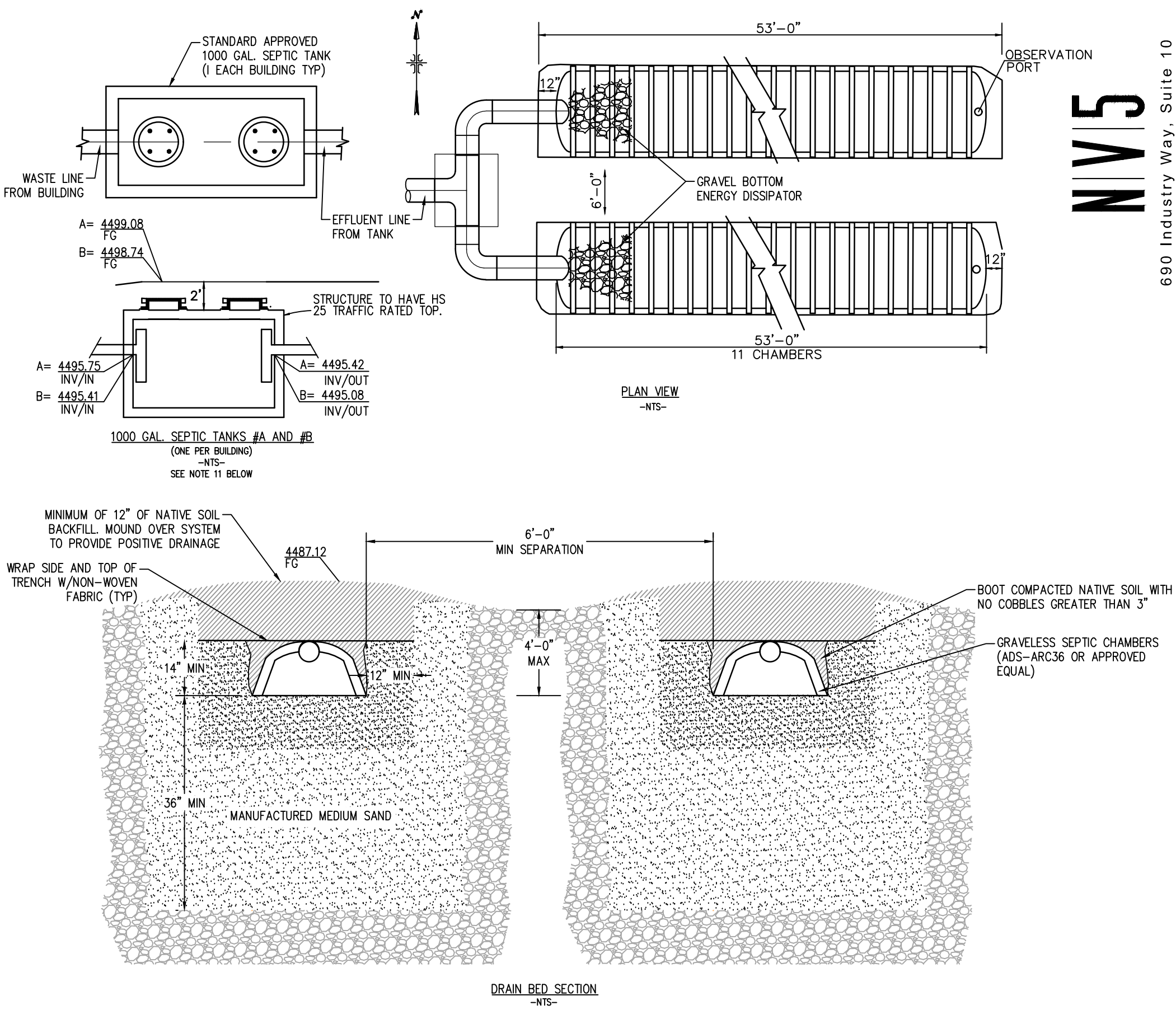
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SITE LAYOUT



SEPTIC SYSTEM AND DRAINFIELD LAYOUT



NOTES:

- SEEPAGE BED MUST BE 15 FEET BACK FROM PROPERTY/ROW LINE.
- PER THE IDWR ONSITE WELL LOGS, GROUND WATER IS ESTIMATED TO BE GREATER THAN 20' DEEP AND WILL NOT BE AN ISSUE.
- THE TEST PIT DATA FROM THE ARCHITECTURAL PLANS FOR THE GIBBONSVILLE MAINTENANCE BUILDING STATE PROJECT BLDG NO. 6022 WERE USED TO SIZE THIS SYSTEM. IF DURING CONSTRUCTION THE HEALTH OFFICER DETERMINES THAT THERE IS A DISCREPANCY THE SYSTEM MAY NEED TO BE REDESIGNED.
- THE CONTRACTOR INSTALLING THE SEPTIC SYSTEM MUST BE CERTIFIED TO INSTALL SEPTIC SYSTEMS IN THE EASTERN HEALTH DISTRICT.
- APPROVAL BY THE EASTERN DISTRICT HEALTH OFFICE SHALL BE REQUIRED PRIOR TO INSTALLATION OF THE SYSTEM.
- THE CONTRACTOR SHALL HAVE PLANS APPROVED FOR CONSTRUCTION BY THE EASTERN DISTRICT HEALTH OFFICE, ON SITE AT ALL TIMES. ANY CHANGE FROM THE PLANS SHALL BE APPROVED BY THE HEALTH OFFICE, AND THE OWNER.
- THE CONTRACTOR SHALL CONTACT THE EASTERN DISTRICT HEALTH OFFICE FOR INSPECTION OF ALL SANITARY FACILITIES PRIOR TO INSTALLATION OF THE SYSTEM. MINIMUM 2 WORKING DAYS NOTICE IS REQUIRED.
- APPROVAL IS CONTINGENT UPON INSPECTION.
- CHAMBERS TO BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS.
- SEE SITE PLAN FOR VISUAL SCHEMATIC LAYOUT FOR SYSTEM.
- THE SEPTIC TANK SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTION 1.4.2.1.1 OF THE 2018 EDITION OF THE TECHNICAL GUIDANCE MANUAL FOR INDIVIDUAL AND SUBSURFACE SEWAGE DISPOSAL SYSTEMS PREPARED BY THE STATE OF IDAHO DEQ.

SIZING CALCULATIONS

SOIL NS (NOT SUITABLE) FOR INSTALLATION OF A SUBSURFACE SEWAGE DISPOSAL SYSTEM FROM USDA WEB SOIL SURVEY (April 19, 2023). ENVELOPED IN-TRENCH SAND FILTER DRAINFIELD REQUIRED DUE TO UNSUITABLE SOIL WITH AN APPLICATION RATE $>1.2 \text{ GPD/FT}^2$ DOWNGRADE TO 1.2 GPD/FT^2 USING STANDARD ENVELOPED IN-TRENCH SAND FILTER DESIGN PER 4.23.3.2.1 OF THE DEQ TECHNICAL GUIDANCE MANUAL (MARCH 2023).

SOIL APPLICATION RATE = 1.2 GPD/FT^2

2 NEW BUILDINGS WITH 3 BEDROOMS EACH = 2-3 BEDROOMS @ 250 GPD/EA (500 GPD)

ARC 36 CHAMBERS IF USED PROVIDE (25% reduction)

SYSTEM SIZE W/ ARC CHAMBERS

Length = $\frac{[(500 \text{ GPD}) / (1.2 \text{ GPD/FT}^2)]}{4 \text{ FT}^2/\text{LF}}$

= 104.2 LF (2 legs each 53' long)

With Chamber length and required spacing = 2 legs 53'-0" long x 3' wide with 11 chambers each and 6' of unexcavated earth between them.

SYSTEM SIZE STANDARD SYSTEM

Length = $\frac{[(500 \text{ GPD}) / (1.2 \text{ GPD/FT}^2)]}{4 \text{ FT}^2/\text{LF}}$

= 416.7 LF

With 4' wide trenches = 2 legs 53'-0" long x 4' wide and 6' of unexcavated earth between them.

ADDITIONAL WATER NOTES

- CONTRACTOR TO VERIFY LOCATION OF EXISTING WATER LINE CONNECTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- CONTRACTOR TO CONFIRM EXISTING PUMP AND PRESSURE TANK SPECIFICATIONS TO SEND TO MECHANICAL ENGINEER FOR APPROVAL.
- INSTALL WATER SERVICE LINE AS ONE CONTINUOUS PIECE FROM ISOLATION VALVE TO BUILDING CONNECTION.

LEGEND

- PROPERTY BOUNDARY
- RIGHT OF WAY LINE
- EXISTING ROAD CENTERLINE
- EXISTING FENCE LINE
- EXISTING WATER SERVICE LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING TELEPHONE LINE
- PROPOSED SEWER SERVICE LINE
- PROPOSED WATER SERVICE LINE
- PROPOSED OVERHEAD POWER LINE
- PROPOSED TELEPHONE LINE
- SEWER CLEANOUT



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PROJECT NAME:
ITD D6 GIBBONSVILLE
EMPLOYEE HOUSING
SITE DEVELOPMENT

GIBBONSVILLE, ID

SHEET TITLE:
SETUP

DRAWING SCALE APPLIES
TO 22" X 34" SHEET SIZE

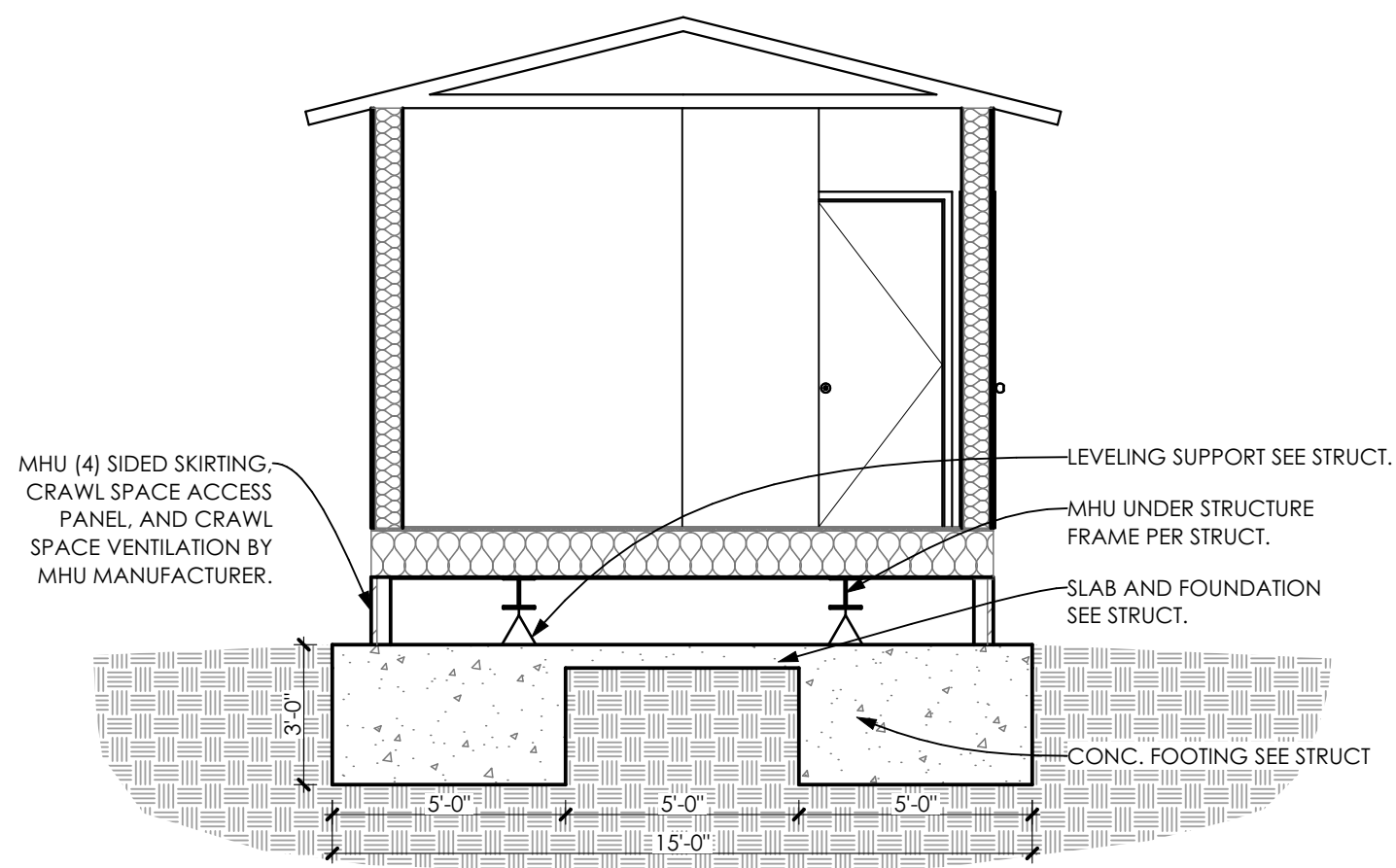
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REVISION DATE

CLIENT PROJ. NUMBER:
ARCH. JOB NUMBER:
22589

SHEET ISSUED DATE:
SHEET
C1.0



3
A100

BUILDING SECTION A

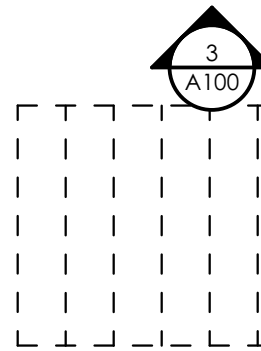
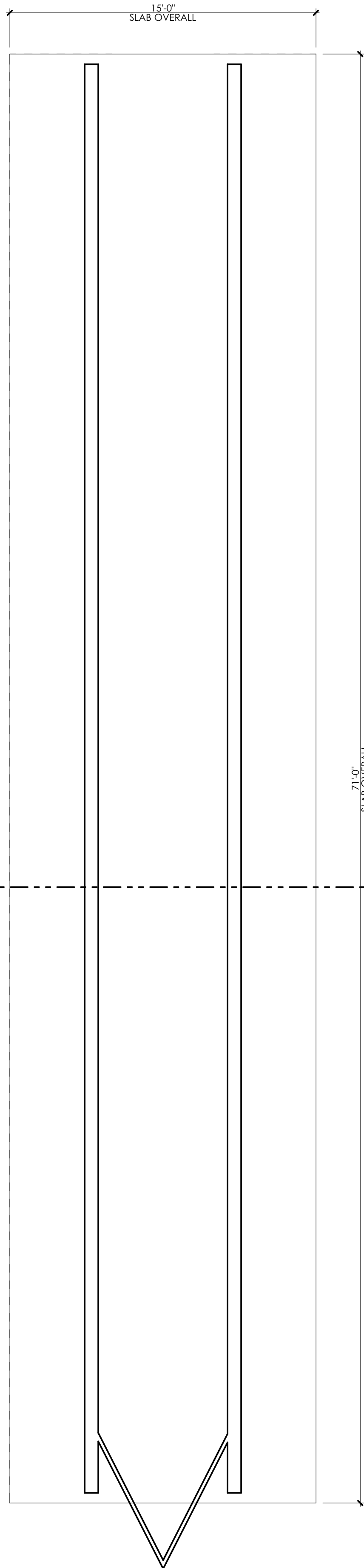
SCALE: 1/4" = 1'-0"

3
A100

2
A100

MHU UNDER STRUCTURE PLAN

SCALE: 1/4" = 1'-0"



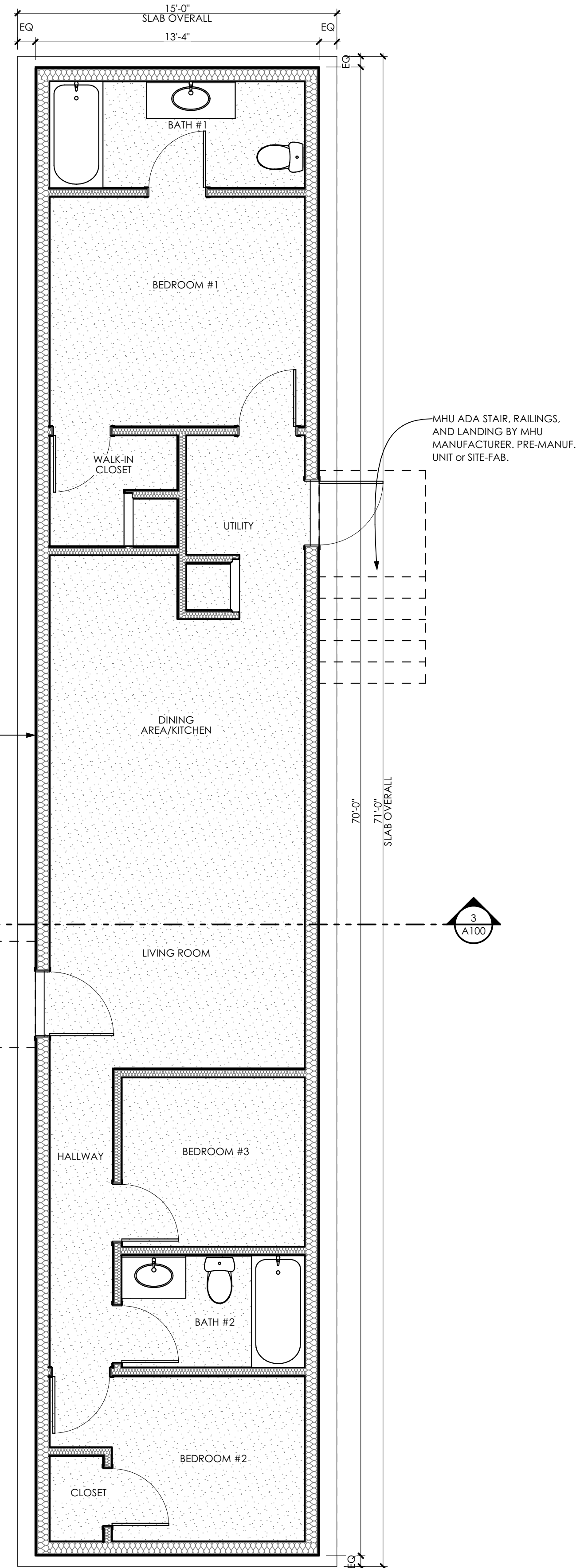
MHU (4) SIDED SKIRTING, CRAWL SPACE ACCESS PANEL, AND CRAWL SPACE VENTILATION BY MHU MANUFACTURER. STAIR LAYOUT IS FOR REF. ONLY - LAYOUT FOR MIN. COST / NUMBER OF STAIR RISERS.

MHU ADA STAIR, RAILINGS, AND LANDING BY MHU MANUFACTURER, PRE-MANUF. UNIT or SITE-FAB.

1
A100

MHU FLOOR PLAN w/ PLUM & HVAC

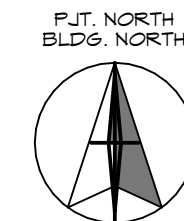
SCALE: 1/4" = 1'-0"



GENERAL NOTES:

1. VERIFY MHU FINAL SIZE PRIOR TO SLAB INSTALLATION
2. SEE PLUMBING, AND ELECTRICAL SHEET FOR ALL MHU HOOKUP ITEMS

PROJECT NORTH



DBS STAMP

PROJECT NAME:
**ITD D6 GIBBONSVILLE
EMPLOYEE HOUSING
SITE DEVELOPMENT**
GIBBONSVILLE, ID

SHEET TITLE:

**OVERALL FLOOR
PLANS**

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TO 22" X 34" SHEET SIZE

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MECHANICAL ABBREVIATIONS			
A/C or AC	AIR CONDITIONING	KW	KILOWATT
AF	ABOVE FINISHED FLOOR	KWH	KILOWATT HOUR
AHU	AIR HANDLING UNIT		
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	LAT	LEAVING AIR TEMPERATURE
		LAV	LAVATORY
BTU	BRITISH THERMAL UNITS	LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
BTUH	BTUS PER HOUR	LWT	LEAVING WATER TEMPERATURE
		MAX	MAXIMUM
CA	COMBUSTION AIR	MCA	MINIMUM CIRCUIT AMPS
CC	COOLING COIL	MOC	MAXIMUM OVERCURRENT PROTECTION
CFM	AIR FLOW RATE (CUBIC FEET PER MINUTE)	MIN	MINIMUM
CHWR	CHILLED WATER RETURN	NC	NOISE CRITERIA
CHWS	CHILLED WATER SUPPLY	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CLS	CEILING	NTS	NOT TO SCALE
CW	COLD WATER	OSA	OUTSIDE AIR
		PD	PRESSURE DROP
DEG or °	DEGREE	PH or Ø	PHASE
DIA or Ø	DIAMETER	PRV	PRESSURE REDUCING VALVE
DB	DRY BULB		
EA	EXHAUST AIR		
EAT	ENTERING AIR TEMPERATURE		
EER	ENERGY EFFICIENCY RATIO		
ESP	EXTERNAL STATIC PRESSURE		
EW	ENTERING WATER TEMPERATURE		
		RA	RETURN AIR
		RPM	REVOLUTIONS PER MINUTE
		RTU	ROOFTOP UNIT
FCO	FLOOR CLEANOUT	SA	SUPPLY AIR
FD	FIRE DAMPER	SEER	SEASONAL ENERGY EFFICIENCY RATIO
FLA	FULL LOAD AMPS	SFD	COMBINATION SMOKE/FIRE DAMPER
FLR	FLOOR	SP	STATIC PRESSURE
PPM	FEET PER MINUTE	SYM	SYMBOL
FT	FEET		
		T & P	TEMPERATURE AND PRESSURE
GA	GAUGE	TEMP	TEMPERATURE
GCO	GRADE CLEANOUT	TYP	TYPICAL
GPM	WATER FLOW RATE (GALLONS PER MINUTE)		
		UMC	UNIFORM MECHANICAL CODE
HC	HEATING COIL	UPC	UNIFORM PLUMBING CODE
HP	HORSE POWER	URL	URINAL
HVAC	HEATING, VENTILATING, AIR CONDITIONING		
HW	HOT WATER		
HWR	HOT WATER RETURN	VTR	VENT THROUGH ROOF
HWS	HOT WATER SUPPLY	V	VOLTS
IBC	INTERNATIONAL BUILDING CODE	W	WITH
IEEC	INTERNATIONAL ENERGY CONSERVATION CODE	WB	WET-BULB
IFC	INTERNATIONAL FIRE CODE	WC	WATER CLOSET
IFGC	INTERNATIONAL FUEL GAS CODE	WCO	WALL CLEANOUT
IMC	INTERNATIONAL MECHANICAL CODE	WH	WATER HEATER
IPC	INTERNATIONAL PLUMBING CODE		
NOTE:	THIS IS A STANDARD LIST OF COMMONLY USED MECHANICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.		

MECHANICAL GENERAL NOTES	
1.	ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE (IMC) LATEST EDITION, AND ALL LOCAL & STATE CODES.
2.	ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST ADOPTED PLUMBING CODE, AND ALL LOCAL & STATE CODES.
3.	ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
4.	MECHANICAL CONTRACTORS SHALL RECEIVE PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER BEFORE MAKING CUTS THROUGH ANY STRUCTURAL MEMBER.
5.	MECHANICAL CONTRACTORS SHALL COORDINATE INSTALLATION WITH CONSTRUCTION SUPERVISOR AND WITH ALL OTHER TRADES TO AVOID CONFLICTS.
6.	THE MECHANICAL CONTRACTORS SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.
7.	SEE MECHANICAL SCHEDULE SHEET FOR SCHEDULED CAPACITIES OF ALL MECHANICAL EQUIPMENT AND MATERIALS SPECIFIED.
8.	DOMESTIC WATER SERVICE IS PROVIDED WITH A DOUBLE CHECK BACKFLOW PREVENTER.
9.	ALL MECHANICAL EQUIPMENT TO BE PROPOSED MUST BE ON THE APPROVED LIST PRIOR TO SUBMITTALS. ALL APPROVED MANUFACTURERS MUST BE CAPABLE OF MEETING THE REQUIREMENTS OF THE SPECIFIED EQUIPMENT.
10.	RUNOUT AND HOOKUP SIZES TO INDIVIDUAL PLUMBING FIXTURE CAN BE FOUND ON THE PLUMBING FIXTURE SCHEDULE.
11.	PROVIDE REMOTE CEILING ACCESS BALANCE DAMPERS WITH CONCEALED CHROME PLATE COVERS FOR BALANCE DAMPERS LOCATED ABOVE HARD CEILINGS.
12.	PAINT ALL VTR'S, FLUES, EXHAUST CAPS, AND OTHER MECHANICAL ITEMS ON THE ROOF TO MATCH THE ROOF COLOR.
13.	INSULATED FLEXIBLE DUCTWORK MAY BE USED FOR RUNOUTS TO GRILLES AND DIFFUSERS, IN LENGTHS OF 6'-0" OR LESS.
14.	MAINTAIN MINIMUM OF 10'-0" DISTANCE BETWEEN ALL FRESH AIR INTAKES AND EXHAUST OR GAS FLUE DISCHARGES.
15.	THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL BACKFLOW DEVICES TO BE INSPECTED BY A CERTIFIED BACKFLOW TECHNICIAN BEFORE THE USE OF THE BUILDING POTABLE WATER SYSTEM.
16.	LOCATE ACCESS HATCHES SO AS TO PROVIDE OPTIMUM SERVICEABILITY TO EQUIPMENT AND/OR VALVING. SEE ARCHITECTURAL SPECIFICATION FOR TYPE AND COLOR. COORDINATE LOCATION WITH STRUCTURAL & LIGHTING.
17.	WHENEVER THERE IS A DISCREPANCY BETWEEN THE RUNOUT DUCT SIZE SHOWN ON THE PLANS AND THAT SHOWN IN THE SCHEDULE, ALWAYS USE THE LARGER OF THE TWO DUCT SIZES.
18.	THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR VERIFICATION OF EXISTING JOB CONDITIONS PRIOR TO BID. NO ADDITIONAL COST SHALL BE AWARDED TO THE SUCCESSFUL CONTRACTOR (OR THEIR SUBCONTRACTORS) AFTER BIDS HAVE BEEN SUBMITTED AND CONTRACTS AWARDED FOR FAILURE TO VERIFY EXISTING FIELD CONDITIONS. DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION FOR ALTERNATIVE METHODS OF INSTALLATION PRIOR TO THE BIDDING OF THIS PROJECT.
19.	UNLESS OTHERWISE NOTED ALL EXISTING MECHANICAL EQUIPMENT, PIPING, ETC. TO BE REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR UNDER THIS CONTRACT. THE OWNER SHALL RETAIN THE RIGHT TO KEEP ANY REMOVED ITEMS.
20.	ALL DOMESTIC COLD AND HOT WATER LINES IN THE AREA OF WORK WHICH ARE NO LONGER IN USE DUE TO THIS PROJECT SHALL BE REMOVED BACK TO THE MAINS AND CAPPED.
21.	HOLES IN EXISTING WALL OR FLOORS SHALL BE PATCHED TO MATCH EXISTING WHERE PIPING, DUCTWORK, ETC. WERE REMOVED OR ADDED DURING THIS PROJECT.
22.	DAMAGE TO THE EXISTING FACILITY DURING THE CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.

MECHANICAL AND PLUMBING DRAWINGS LEGEND	
	FLEXIBLE DUCTWORK
	DUCTWORK
	DUCTWORK BREAK
	DUCTWORK OR PIPING RISE
	CONCENTRIC SQUARE TO ROUND TRANSITION
	MOTORIZED DAMPER
	MANUAL VOLUME DAMPER
	SPIN-IN FITTING W/ AIR EXTRACTOR AND HAND DAMPER
	HIGH EFFICIENCY FITTING W/ HAND DAMPER
	SWITCH
	THERMOSTAT
	HUMIDISTAT
	TEMPERATURE SENSOR
	CARBON DIOXIDE SENSOR
	CARBON MONOXIDE SENSOR
	NITROGEN DIOXIDE SENSOR
	DUCT SMOKE DETECTOR
	COMBINATION SMOKE/FIRE DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	EQUIPMENT CALLOUT
	TURNING VANES
	INTAKE OR EXHAUST
	DIRECTION OF AIRFLOW
	SUPPLY DIFFUSER
	RETURN GRILLE
	EXHAUST GRILLE
	FLOOR GRILLE
	CEILING EXHAUST FAN
	TEMPERATURE GAUGE
	PRESSURE GAUGE (LIQUID FILLED W/ ISOLATION VALVE)
	TEMPERATURE SENSOR (DUCT OR PIPING)
	FLOW SWITCH
	STAINLESS STEEL BRAIDED FLEX CONNECTION
	ELASTOMETRIC FLEX CONNECTOR
	SUCTION DIFFUSER
	Y TYPE STRAINER (1 1/2" OR LARGER PROVIDED W/ BLOW DOWN VALVE)
	FLOW DIRECTION
	DEMOLITION / EQUIPMENT TO BE REMOVED
	NEW TO EXISTING CONNECTION POINT
	EXISTING
	FUTURE
	NEW
	REDUCED PRESSURE BACKFLOW PREVENTER
	DOUBLE CHECK BACKFLOW PREVENTER
	UNION
	AIR VENT
	TRIPLE DUTY VALVE
	THREE WAY CONTROL VALVE
	TWO WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	GATE VALVE
	REDUCER
	GLOBE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	BALANCE VALVE
	CHECK VALVE
	FLOOR CLEANOUT
	WALL CLEANOUT
	GRADE CLEANOUT
	WATER HAMMER ARRESTOR
	FLOOR DRAIN
	FLOOR SINK
	GAS PRESSURE REGULATOR W/ GAS COCK
	PRESSURE RELIEF VALVE
	VENT-THROUGH-ROOF
	VENT
	SOIL, WASTE, OR SANITARY SEWER
	ACID WASTE LINE
	ACID VENT LINE
	STORM DRAIN
	ROOF DRAIN LINE
	OVERFLOW DRAIN LINE
	CONDENSATE DRAIN LINE
	DOMESTIC COLD WATER (CW)
	DOMESTIC HOT WATER (HW)
	DOMESTIC HOT WATER RETURN (HWR)
	TEMPERED WATER (TW)
	MEDIUM PRESSURE NATURAL GAS
	LOW PRESSURE NATURAL GAS
	FIRE SPRINKLER LINE
	GEO THERMAL WATER SUPPLY
	GEO THERMAL WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	HEATING WATER SUPPLY
	HEATING WATER RETURN
	LIQUID REFRIGERANT LINE
	SUCTION REFRIGERANT LINE
	SLOPE PIPE IN DIRECTION OF ARROW
	PIPE ANCHOR
	PIPE GUIDE
	CAP
NOTE:	THIS IS A LIST OF COMMONLY USED MECHANICAL AND PLUMBING SYMBOLS. SOME OF THE SYMBOLS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

ENERGY CODE COMPLIANCE	
A.	COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE IS REQUIRED FOR THIS PROJECT. THESE NOTES COVER MANDATORY REQUIREMENTS OF THE CODE. ADDITIONAL REQUIREMENTS ARE NOTED ON THE DRAWINGS AND IN THE SPECIFICATIONS.
B.	MINIMUM REQUIREMENTS FOR SUPPLY AND RETURN DUCTWORK INSULATION: 1. R-6: DUCTS LOCATED IN UNCONDITIONED SPACES (SPACE NEITHER HEATED NOR COOLED SUCH AS ABOVE CEILING SPACES, WALL SPACES, DUCT CHASES, SOFFITS, ATTICS, CRAWL SPACES, UNHEATED BASEMENTS, AND UNHEATED GARAGES). 2. R-12: DUCTS LOCATED OUTSIDE OF THE BUILDING'S INSULATION ENVELOPE (SUCH AS ABOVE THE ATTIC INSULATION). TYPICAL INSULATION THICKNESS REQUIRED TO MEET THESE REQUIREMENTS: 1. DUCT WRAP: R-6 = 1-1/2" R-12 = 4" 2. DUCT LINER: R-6 = 1-1/2" R-12 = 3"
C.	CONTRACTOR SHALL VERIFY WITH THE MANUFACTURER, THE R-VALUES OF THE ACTUAL INSULATION USED. R-VALUES SHALL BE INSTALLED VALUES.
D.	WHERE DUCTS USED FOR COOLING ARE EXTERNALLY INSULATED, THE INSULATION SHALL BE COVERED WITH A VAPOR RETARDER HAVING A MAXIMUM PERMEANCE OF 0.05 PERM OR ALUMINUM FOIL HAVING A MINIMUM THICKNESS OF 2 MILS. INSULATION HAVING A PERMEANCE OF 0.05 PERMS OR LESS SHALL NOT BE REQUIRED TO BE COVERED. ALL JOINTS AND SEAMS SHALL BE SEALED TO MAINTAIN THE CONTINUITY OF THE VAPOR RETARDER.
E.	ALL DUCT JOINTS, SEAMS, AND CONNECTIONS SHALL BE FASTENED AND SEALED WITH WELDS, GASKETS, ADHESIVES, MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, OR TAPES. TAPES AND MASTICS SHALL BE LISTED AND LABELED PER UL181A OR UL181B. DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS. DUCT CONNECTIONS TO FLANGES OR EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED.
G.	DOMESTIC HOT WATER PIPING SYSTEMS SHALL BE INSULATED WITH 1" INSULATION HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU-INCH/HOUR-FT²-F°.
H.	DOMESTIC WATER HEATERS WHICH ARE NOT PROVIDED WITH INTEGRAL HEAT TRAPS AND SERVE NONCIRCULATING SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING AT THE WATER HEATER.
I.	DOMESTIC HOT WATER SYSTEMS WITH RECIRCULATION PUMPS OR ELECTRIC HEAT TRACE SHALL BE CONTROLLED WITH 7-DAY TIME CLOCKS.
J.	AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY. THE O&M MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION AS A MINIMUM: 1. EQUIPMENT CAPACITY (INPUT & OUTPUT). 2. EQUIPMENT OPERATING AND MAINTENANCE INSTRUCTIONS. 3. CONTROL SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCES. 4. CONTROL SYSTEM SETPOINTS SHALL BE SHOWN ON CONTROL DRAWINGS, AT CONTROL DEVICES, OR IN PROGRAMMING COMMENT ON DDC SYSTEMS. 5. A COMPLETE WRITTEN NARRATIVE ON HOW EACH MECHANICAL SYSTEM IS INTENDED TO OPERATE.



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Project No. 23-182

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Architectural Interior DesignHistoric Preservation

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PROFESSIONAL ENGINEER
13789
5/15/2023
STATE OF IDAHO
TODD NELSON

ASD NCARB AIA

PROJECT TITLE:

ITD D6 GIBBONSVILLE
EMPLOYEE HOUSING
SITE DEVELOPMENT

GIBBONSVILLE, ID

SHEET TITLE:

MECHANICAL
PLANS

DRAWING SCALE APPLIES
TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY
ALL DIMENSIONS & CONDITIONS
SHOWN or IMPLIED

DO NOT DISTRIBUTE PARTIAL SETS OF
DRAWINGS or SPECIFICATIONS

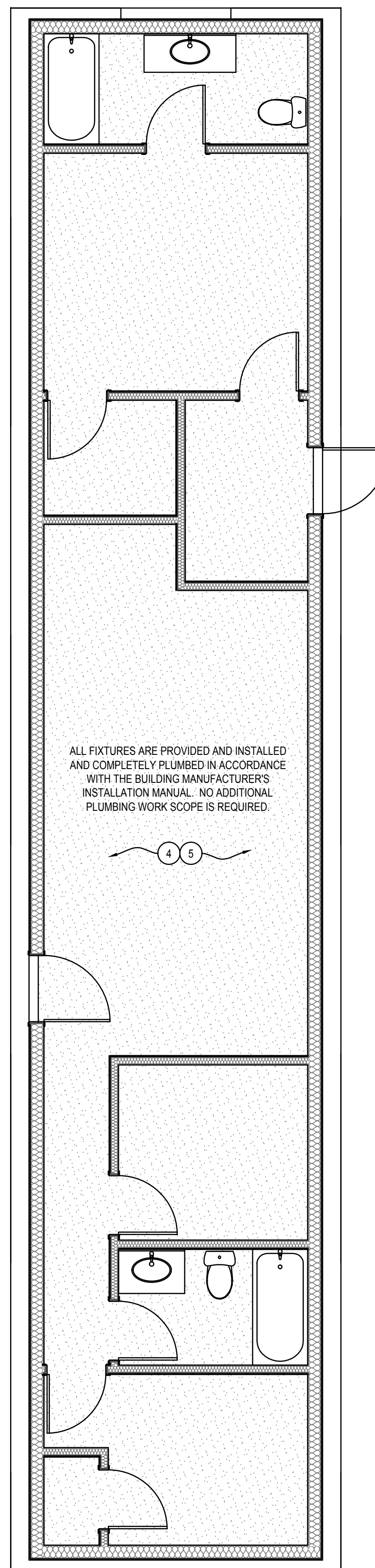
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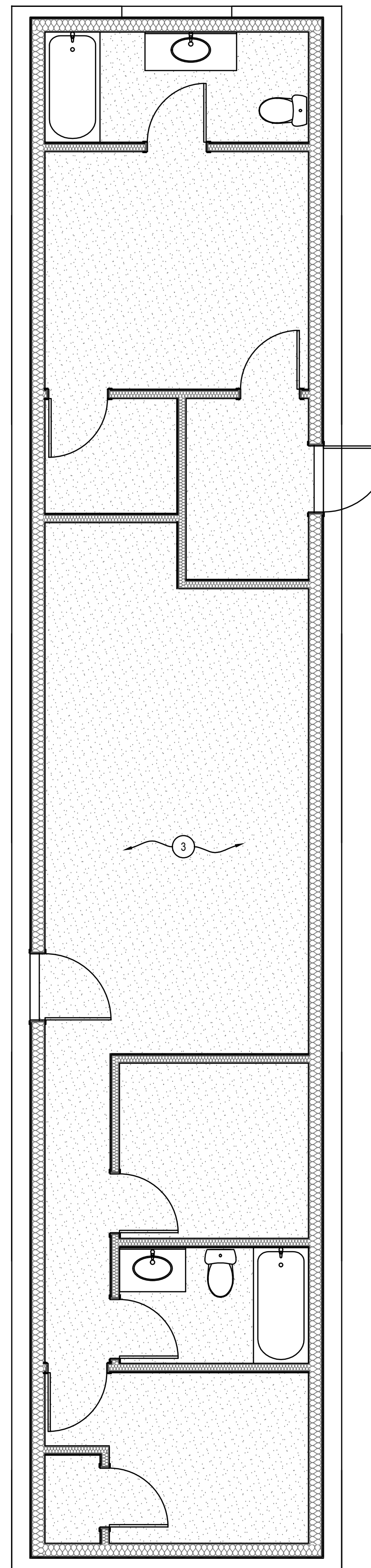
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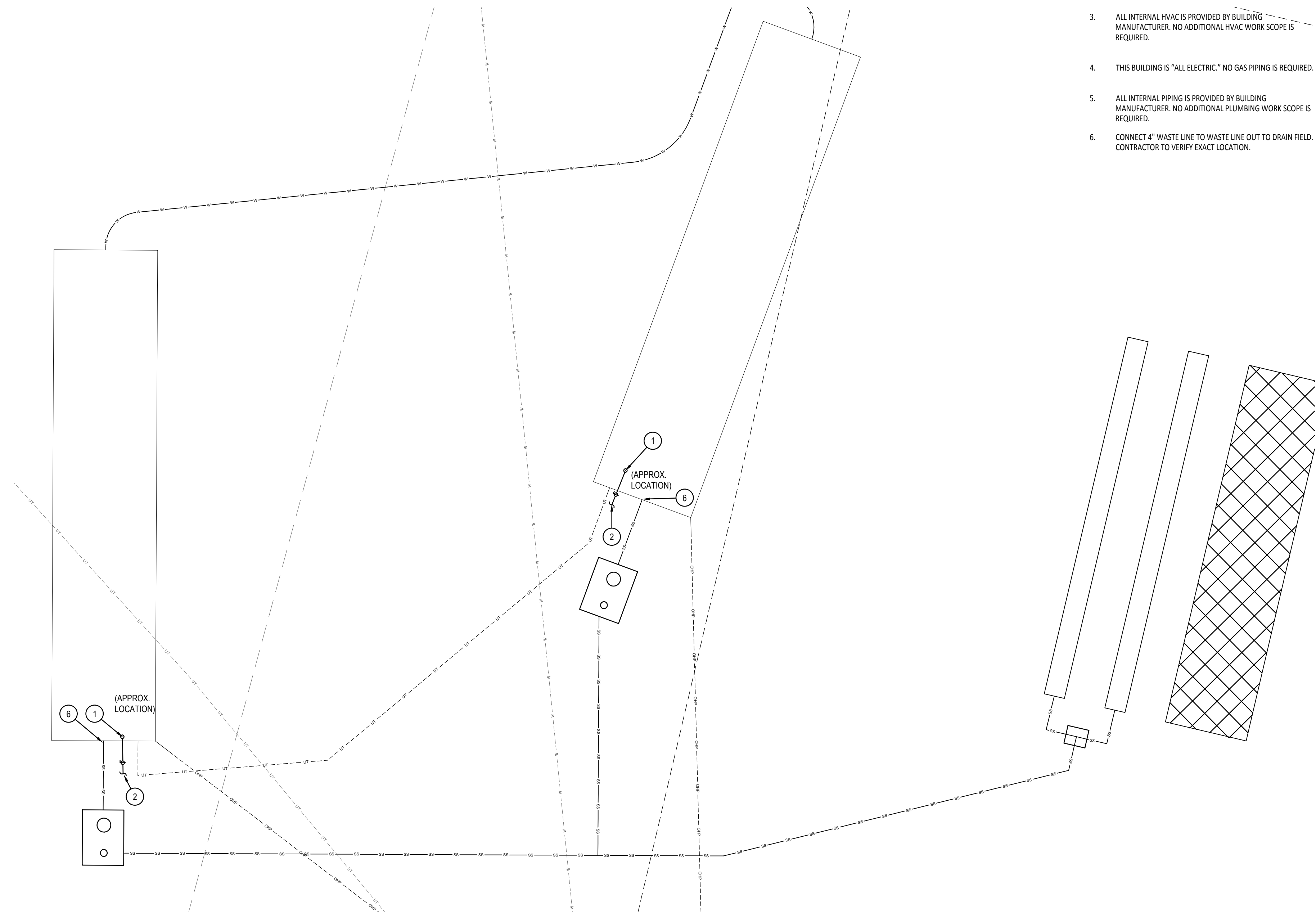
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PLUMBING PLAN

$$\frac{1}{4}'' = 1'$$


HVAC PLAN

$$1/4'' = 1'$$


MECHANICAL NEW SITE PLAN

1"=10'



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KEYED NOTES:

① SYMBOL USED FOR NOTE CALLOUT.

1. CONTRACTOR TO INSTALL "1" WATER LINE - SEE CIVIL FOR CONNECTION POINT. CONTRACTOR SHALL FOLLOW INSTALLATION INSTRUCTION AS OUTLINED IN BUILDING MANUAL, INCLUDING: FLUSHING / CLEANING THE THREADS / CONFIRMING THE INLET PRESSURE IS BELOW 80 PSI (IF ABOVE 80 PSI, THEN A PRESSURE REDUCING STATION WILL BE REQUIRED) / CONNECTING THE MAIN BUILDING'S ISOLATION VALVE IN ACCESSIBLE LOCATION WITH SIGN / AND FINALIZING ALL REQUIRED TESTS - HYDROSTATIC TEST IS PREFERRED. DO NOT INSTALL HOSE BIBB ON THIS BUILDING.
2. IT SHOULD BE NOTED THAT THE SECTION OF WATER PIPING FROM BELOW GROUND FROST LINE TO THE FACTORY PROVIDED CONNECTION POINT AND THE SECTION OF WATER PIPING STILL EXPOSED IN THE CRAWL SPACE SHALL BE HEAT TRACED BY THE ELECTRICAL CONTRACTOR AND THEN INSULATED BY THE PLUMBING CONTRACTOR. COORDINATE THIS PIPE FREEZING PREVENTION WORK SCOPE WITH ELECTRICAL CONTRACTOR.
3. ALL INTERNAL HVAC IS PROVIDED BY BUILDING MANUFACTURER. NO ADDITIONAL HVAC WORK SCOPE IS REQUIRED.
4. THIS BUILDING IS "ALL ELECTRIC." NO GAS PIPING IS REQUIRED.
5. ALL INTERNAL PIPING IS PROVIDED BY BUILDING MANUFACTURER. NO ADDITIONAL PLUMBING WORK SCOPE IS REQUIRED.
6. CONNECT "A" WASTE LINE TO WASTE LINE OUT TO DRAIN FIELD. CONTRACTOR TO VERIFY EXACT LOCATION.



ITD D6 GIBBONSVILLE EMPLOYEE HOUSING SITE DEVELOPMENT

SHEET TITLE:

MECHANICAL PLANS

DRAWING SCALE APPLIES
TO 22" X 34" SHEET SIZE

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ELECTRICAL LEGEND - LIGHTING

REFERENCE FIXTURE SCHEDULE FOR MOUNTING TYPE, MOUNTING HEIGHT, AND FIXTURE TYPE.	
	DOUBLE FACE EXIT SIGN, CEILING MOUNTED, PROVIDE UNSWITCHED CONDUCTOR.
	WALL MOUNTED DOUBLE FACE EXIT SIGN PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
	SINGLE FACE EXIT SIGN, CEILING MOUNTED PROVIDE UNSWITCHED CONDUCTOR.
	WALL MOUNTED SINGLE FACE EXIT SIGN PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
	ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN.
	1X1' LIGHT FIXTURE.
	1X1' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	TRACK LIGHT
	1'X4' LIGHT FIXTURE.
	1'X4' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	2'X4' LIGHT FIXTURE.
	2'X4' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	2'X2' LIGHT FIXTURE.
	2'X2' LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	DIRECT/INDIRECT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH.
	DIRECT/INDIRECT LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR
	STRIP LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH.
	STRIP LIGHT FIXTURE. SEE SCHEDULE FOR LENGTH. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR
	WALL MOUNTED LIGHT FIXTURE.
	WALL MOUNTED LIGHT FIXTURE, PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	RECESSED LIGHT FIXTURE
	RECESSED LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	ROUND LIGHT FIXTURE
	ROUND EMERGENCY LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	WALL MOUNTED LIGHT FIXTURE.
	WALL MOUNTED EMERGENCY LIGHT FIXTURE. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR.
	POLE LIGHT 1 HEAD WITH POLE
	TIME CLOCK
	PHOTO CONTROL CELL LOCATED 12" ABOVE ROOF FACING NORTH.
	OCCUPANCY SENSOR. PROVIDE RELAYS AND POWER PACKS AS REQUIRED.
	LED DRIVER
	EMERGENCY EGRESS LIGHTING WITH OUT FIXTURE HEADS. CONNECT TO AN UNSWITCHED CONDUCTOR.
	EMERGENCY EGRESS LIGHTING. CONNECT TO AN UNSWITCHED CONDUCTOR.
	WALL MOUNTED SINGLE FACE EXIT SIGN WITH EMERGENCY EGRESS LIGHTING. PROVIDE UNSWITCHED CONDUCTOR. MOUNT AT +8'-0" UNO.
	CEILING MOUNTED. SINGLE FACE EXIT SIGN WITH EMERGENCY EGRESS LIGHTING. PROVIDE UNSWITCHED CONDUCTOR.
	CEILING MOUNTED. DOUBLE FACE EXIT SIGN WITH EMERGENCY EGRESS LIGHTING. PROVIDE UNSWITCHED CONDUCTOR.
	INDICATES FIXTURE TYPE. REFER TO FIXTURE SCHEDULE.
	EXTERIOR WALL PACK
	EMERGENCY EXTERIOR WALL PACK. PROVIDE EMERGENCY BATTERY BACKUP CONNECTED TO AN UNSWITCHED CONDUCTOR

DEVICES

	SWITCH, TYPE AS INDICATED. +46" AFF
	DOUBLE POLE
	3-WAY
	4-WAY
	KEYED
	PILOT LIGHT
	DIMMER
	HORSEPOWER RATED
	THERMAL OVERLOAD
	LOW VOLTAGE
	OCCUPANCY SENSOR
	LOW VOLTAGE, MOMENTARY OVERRIDE
	VACANCY SENSOR
	SUPERSCRIPT INDICATES LIGHTS TO BE SWITCHED TOGETHER
	DUAL LEVEL SWITCHING. INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
	DUAL LEVEL SWITCHING WITH OCCUPANCY SENSOR, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
	OCCUPANCY SENSOR WITH MANUAL DIMMING, SET FOR 50% AUTOMATIC ON, AUTOMATIC OFF, WITH MANUAL DIMMING.
	SINGLE CONVENIENCE OUTLET, +18" AFF UNO
	FLOOR MOUNT SINGLE CONVENIENCE OUTLET
	DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
	FLOOR MOUNT DUPLEX CONVENIENCE OUTLET
	EMERGENCY DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
	SWITCHED DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
	FLOOR MOUNTED SWITCHED DUPLEX CONVENIENCE OUTLET
	USB DUPLEX CONVENIENCE OUTLET, +18" AFF UNO
	USB FOURPLEX CONVENIENCE OUTLET, +18" AFF UNO
	FOURPLEX CONVENIENCE OUTLET. +18" AFF UNO
	FLOOR MOUNT FOURPLEX CONVENIENCE OUTLET
	CONNECTION POINT TO EQUIPMENT SPECIFIED, ELECTRICAL CONTRACTOR TO SUPPLY RACEWAY AND CONDUCTORS AND MAKE FINAL CONNECTION TO EQUIPMENT UNDER THIS SECTION. UNO
	FLOOR MOUNTED CONNECTION POINT, SEE NOTE ABOVE FOR REQUIREMENTS
	FLOOR MOUNTED JUNCTION BOX
	JUNCTION BOX
	WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
	WALL MOUNTED PUSH BUTTON, HANDICAPPED MOUNT AT SWITCH HEIGHT UNO
	WALL MOUNTED PUSH BUTTON, MOUNT AT SWITCH HEIGHT UNO
	MOTOR STARTER/CONTACTOR, SIZE/POLES NEMA 1 UNO AS INDICATED
	COMBINATION STARTER AND DISCONNECT, SIZE/POLES, STARTER SIZE AS INDICATED, NEMA 1 UNO
	FUSED DISCONNECT SWITCH, SIZE/POLES, FUSE SIZES AS INDICATED, NEMA 1 UNO
	NON-FUSED DISCONNECT SIZE/ POLES AS INDICATED, NEMA 1 UNO
	THERMOSTAT. +46" AFF PROVIDE CONDUIT, J-BOX, CONDUCTORS AS REQUIRED TO CONTROL ASSOCIATED UNITS. UNO COORDINATE WITH DIVISION 15.
	HUMIDISTAT. +46" AFF PROVIDE CONDUIT, J-BOX, CONDUCTORS AS REQUIRED TO CONTROL ASSOCIATED UNITS.
	POWER POLE - DUAL CHANNEL
	RECESSED ENTERTAINMENT BOX
	TRANSFORMER
	PANELBOARD. SEE SCHEDULE FOR TYPE.
	EQUIPMENT CABINET, SURFACE MOUNTED
	EQUIPMENT CABINET FLUSH MOUNTED
	SURFACE MULTI-OUTLET RACEWAY
	MECHANICAL EQUIPMENT CALL OUT
	KITCHEN EQUIPMENT CALLOUT

ONE LINE

	DELTA WYE TRANSFORMER UNO
	PANEL BOARD, SEE SCHEDULE FOR TYPE AND SIZE
	CIRCUIT BREAKER, SIZE AND POLES INDICATED
	FUSE, SIZE AND TYPE INDICATED, PROVIDE FUSE FOR EACH POLE
	INTERRUPTER SWITCH, SIZE AND POLES INDICATED
	FUSED SWITCH, SIZE/POLES AND FUSE SIZE INDICATED
	DRAW OUT CIRCUIT BREAKER, SIZE AND POLES INDICATED
	INDIVIDUAL BREAKER WITH SHUNT TRIP, SIZE AND POLES INDICATED. NEMA 1 UNO
	INDIVIDUAL BREAKER, SIZE AND POLES INDICATED, NEMA 1 UNO
	GROUND FAULT PROTECTION
	TRANSIENT VOLTAGE SURGE SUPPRESSION
	ADJUSTABLE BREAKER SETTINGS (PER SPECIFICATIONS): 'L'-LONG TIME 'S'-SHORT TIME 'I'-INSTANTANEOUS 'G'-GROUND FAULT 'R'-ENERGY REDUCING MAINTENANCE SWITCH W/STATUS INDICATOR
	GROUND
	SHUNT TRIP COIL
	MOTOR
	DISCONNECT SWITCH, SIZE AND POLES INDICATED. NEMA 1 UNO
	OVERHEAD SERVICE DROP
	GENERATOR SET, MAIN BREAKER SIZE INDICATED
	AUTOMATIC TRANSFER SWITCH (ATS)
	METER AND BASE
	NEUTRAL
	DRY TYPE TRANSFORMER
	PAD MOUNT TRANSFORMER

ELECTRICAL ABBREVIATIONS

A	AMPERES
AC	6" ABOVE BACKSPASH
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME
AIC	AMPS INTERRUPTING CAPACITY
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BD	BOTTOM OF DECK
BS	BOTTOM OF STRUCTURE
C	CEILING MOUNTED
CB	CIRCUIT BREAKER
CF	COMPACT FLUORESCENT
CKT	CIRCUIT
CO	CONDUIT ONLY, PROVIDE PULL-LINE
CT	CURRENT TRANSFORMER
CTL	CONTROL
DC	DIRECT CURRENT
(D)	DEMOLITION
DEMO	DEMOLITION
DET	DETAIL
DTT	DOUBLE TWIN TUBE
E	EMERGENCY
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EL	EMERGENCY LIGHT
F	FUSE
(F)	FUTURE
FACP	FIRE ALARM CONTROL PANEL
G/GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
HH	HAND HOLE
HD	HIGH INTERLOCK DISCHARGE
HOA	HAND-OFF-AUTO
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
IG	ISOLATED GROUND
IPCO	IDAHO POWER COMPANY
J-BOX	JUNCTION BOX
KA	KILOAMP
KVA	KILO VOLT-AMP
KW	KILOWATT
KWH	KILOWATT HOUR
LCP	LIGHTING CONTROL PANEL
MB	MAIN BREAKER
MBR	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MMC	MODULAR METERING CENTER
MH	METAL HALIDE
MSB	MAIN SWITCH BOARD
MTG	MOUNTING
N	NEUTRAL
(N)	NEW
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OS	OCCUPANCY SENSOR
P	POLES
PC	PHOTO-CONTROL
PVC	POLYVINYL CHLORIDE
PWR	POWER
RE	REFERENCE
REC	RECEPTACLE
(R)	RELOCATED
SF	SQUARE FEET
TBD	TO BE DETERMINED
TDR	TIME DELAY RELAY
TK	TOE KICK
TSP	TWISTED SHIELDED PAIR
TRT	TRIPLE TUBE
TTB	TELEPHONE TERMINAL BOARD
(TYP.)	TYPICAL
UC	UNDERCABINET
UG	UNDERGROUND
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMPERE
W	WATT
WG	WIRE GUARD
WP	WEATHER PROOF/NEMA 3R
PROVIDED/ PROVIDE BY	PROVIDE AND INSTALL. / PROVIDED AND INSTALLED BY / PROVIDE AND INSTALL
INSTALLED/ INSTALL	
NOTE:	THIS IS A STANDARD LIST OF COMMONLY USED ELECTRICAL ABBREVIATIONS. SOME OF THE ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED IN THIS DRAWING PACKAGE.

ELECTRICAL SPECIFICATIONS

- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCALLY ADOPTED ELECTRICAL CODE, ALL LOCAL CODES, AND TO THE FULL ACCEPTANCE OF THE AUTHORITY HAVING JURISDICTION.
- B. OBTAIN ALL PERMITS, COORDINATE, FURNISH, INSTALL, CONNECT AND TEST ALL ELECTRICAL EQUIPMENT REQUIRED FOR ALL THE SYSTEMS INSTALLED UNDER THIS CONTRACT TO INSURE COMPLETE AND FULLY OPERATIONAL SYSTEMS.
- C. CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF AS-BUILT DRAWINGS. AS-BUILT SET OF DRAWINGS SHALL BE UPDATED DAILY AND SHALL DOCUMENT THE ACTUAL INSTALLED CONDITION OF THE ENTIRE ELECTRICAL INSTALLATION. AS-BUILT SET OF DRAWINGS SHALL BE AVAILABLE AT ALL TIMES ON THE SITE FOR INSPECTION BY CODE OFFICIALS, OWNER, ARCHITECT, AND ENGINEER.
- D. PROTECT ALL EXISTING WORK FROM DAMAGE DURING CONSTRUCTION.
- E. DESIGN IS BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS TO DETERMINE STATUS OF ACTUAL CONDITIONS AS THEY RELATE TO THE SCOPE OF WORK AS SHOWN ON THESE PLANS.
- F. COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES.
- G. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL ELECTRICAL EQUIPMENT AND DEVICES WITH THE ARCHITECTURAL ELEVATIONS AND DETAILS PRIOR TO ROUGH-IN.
- H. DEMOLITION WORK IS A PART OF THIS PROJECT. SEE DRAWINGS FOR EXISTING ELECTRICAL DEVICES TO BE REMOVED. REMOVE ASSOCIATED BOXES, RACEWAYS AND CONDUCTORS BACK TO SOURCE, AND MAKE SAFE.
- I. ALL MATERIALS AND EQUIPMENT FURNISHED TO THE PROJECT SHALL BE NEW AND SHALL BEAR THE LISTING LABEL OF A NATIONALLY RECOGNIZED TESTING LAB AS DEFINED BY OSHA.
- J. ALL ELECTRICAL DEVICES AND TERMINALS SHALL BE RATED 75°C MINIMUM.
- K. ALL CONDUCTORS SHALL BE STRANDED COPPER, 600 VOLT RATED. INSULATION TYPE SHALL BE THINWALL, FULLY COLOR CODED WITH GAUGE, TYPE AND MANUFACTURER MARKED EVERY 24" ALONG. CONDUCTOR COLOR CODE SHALL BE AS FOLLOWS:
- | 208Y/120 VOLT SYSTEM | 480Y/277 VOLT SYSTEM |
|----------------------|----------------------|
| PHASE A - BLACK | PHASE A - BROWN |
| PHASE B - RED | PHASE B - ORANGE |
| PHASE C - BLUE | PHASE C - YELLOW |
| NEUTRAL - WHITE | NEUTRAL - GRAY |
| GROUND - GREEN | GROUND - GREEN |
- L. MINIMUM SIZE WIRE FOR POWER AND LIGHTING CIRCUITS SHALL BE #12 AWG. ALL POWER AND LIGHTING CONDUCTORS SHALL BE ROUTED IN 3/4" CONDUIT MINIMUM.
- M. EMT OR MC TYPE CABLE IS ALLOWED WHEN CONCEALED IN INTERIOR SPACES. MC TYPE CABLE IS NOT ALLOWED FOR HOMERUNS.
- N. MAKE ALL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
- O. ALL EQUIPMENT, SWITCHING DEVICES AND PANELS SHALL BE MOUNTED SO AS TO BE ACCESSIBLE AND SHALL BE MOUNTED PLUMB AND SQUARE WITH WALLS.
- P. DEVICES AND RACEWAYS PENETRATING FIRE RATED WALLS AND FLOORS SHALL BE SEALED WITH FIRE RESISTIVE MATERIAL, COMPATIBLE WITH CONSTRUCTION PENETRATED, TO MAINTAIN RATING OF THE WALL. SEALANT SYSTEM SHALL BE A U.L. APPROVED SYSTEM AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
- Q. FURNISH AND INSTALL PULL CORD IN ALL EMPTY CONDUITS.
- R. ALL JUNCTION BOX COVERS WITH POWER WIRING SHALL HAVE THE PANEL AND CIRCUIT LABELED ON THE OUTSIDE SURFACE. ALL LABELS FOR EXPOSED JUNCTION BOXES IN "FINISHED AREAS" SHALL BE LABELED UTILIZING SELF ADHESIVE LABELS PRODUCED BY A MECHANICAL LABELING MACHINE. LABELS FOR JUNCTION BOX COVERS IN CONCEALED LOCATIONS SHALL CONSIST OF THE INFORMATION BEING NEATLY HANDWRITTEN ON THE OUTSIDE SURFACE OF THE COVER WITH A PERMANENT STYLE MARKER.
- S. CLEARLY LABEL ALL ACCESSIBLE CONDUIT STUBS WITH SYSTEM NAME AND LOCATION (ROOM NUMBER) WHERE THE OTHER END OF THE CONDUIT TERMINATES. USE INDELEIBLE INK. THE LABELS SHALL BE LOCATED ON THE CONDUIT IN A POSITION THAT CAN BE EASILY READ.
- T. ALL 1 POLE BREAKER CIRCUITS SHALL HAVE AN INDEPENDENT NEUTRAL CONDUCTOR. NO EDISON STYLE SHARED NEUTRAL CONDUCTORS ARE ALLOWED.
- U. ALL CONDUCTORS IN ELECTRICAL PANELS, CABINETS AND EQUIPMENT SHALL BE NEATLY TRAINED AND LACED.
- V. THE CONTRACTOR SHALL PROVIDE UPDATED CIRCUIT PANEL DIRECTORIES FOR ALL PANELS. DIRECTORIES SHALL BE TYPED.
- W. PROVIDE ELECTRICAL SUBMITTALS FOR EQUIPMENT SHOWN AS REQUIRED BY DIVISION 1 SPECIFICATIONS.
- X. ELECTRICAL CONTRACTOR SHALL OBTAIN THE AVAILABLE FAULT CURRENT VALUE FROM THE LOCAL UTILITY OR THE ONE-LINE DIAGRAM AND LABEL THE MAIN BREAKER WITH THAT VALUE.
- Y. SWITCH AND RECEPTACLE LABELING: IDENTIFY PANELBOARD AND CIRCUIT NUMBER FROM WHICH DEVICES ARE SERVED. USE MACHINE PRINTED LABEL AND 1/8" TEXT. INSTALL ON THE OUTSIDE OF THE FACEPLATE FOR RECEPTACLES AND INSIDE THE FACEPLATE FOR SWITCHES.



ELECTRICAL GENERAL NOTES

- A. THESE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE; THEREFORE, THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE LOCATIONS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DIVISIONS PRIOR TO ROUGH-IN. REFER TO AND COORDINATE WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL WORK THAT IS REQUIRED BY THE ELECTRICAL CONTRACTOR.
- B. ALL CONDUIT AND JUNCTION BOXES ARE TO BE CONCEALED UNLESS LOCATED WITHIN DEDICATED ELECTRICAL OR MECHANICAL ROOMS. USE OF SURFACE MOUNTED RACEWAYS IN ALL OTHER SPACES MUST BE APPROVED BY THE ARCHITECT FOR EACH LOCATION. WHERE SURFACE RACEWAYS ARE APPROVED, UTILIZE WIREMOLD, OR APPROVED EQUAL. SURFACE MOUNTED RACEWAYS PAINTED TO MATCH SURROUNDING WALLS.
- C. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS WHERE THE SPECIFIC OUTLET HEIGHT IS NOT INDICATED. REFER TO THE ELECTRICAL LEGEND FOR THE DEFAULT OUTLET HEIGHT WHEN NOT INDICATED ON ELEVATIONS OR ON AT THE DEVICES.
- D. PROVIDE PULL-LINE IN ALL EMPTY CONDUITS.
- E. TERMINATE ALL LOW-VOLTAGE CONDUITS WITH INSULATED THROAT BUSHING.
- F. MECHANICAL EQUIPMENT INDICATED IS SHOWN IN AN APPROXIMATE LOCATION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

ITD D6 GIBBONSVILLE
EMPLOYEE HOUSING
SITE DEVELOPMENT

COVER SHEET

DRAWING SCALE APPLIES
TO 22" X 34" SHEET SIZE

CONTRACTOR SHALL VERIFY
ALL DIMENSIONS & CONDITIONS
SHOWN or IMPLIED

DO NOT DISTRIBUTE PARTIAL SETS OF
DRAWINGS or SPECIFICATIONS

REVISION DATE

CLIENT
PROJ.
NUMBER:

ARCH.
JOB
NUMBER: 22589

SHEET
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DATE:

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Myers Anderson

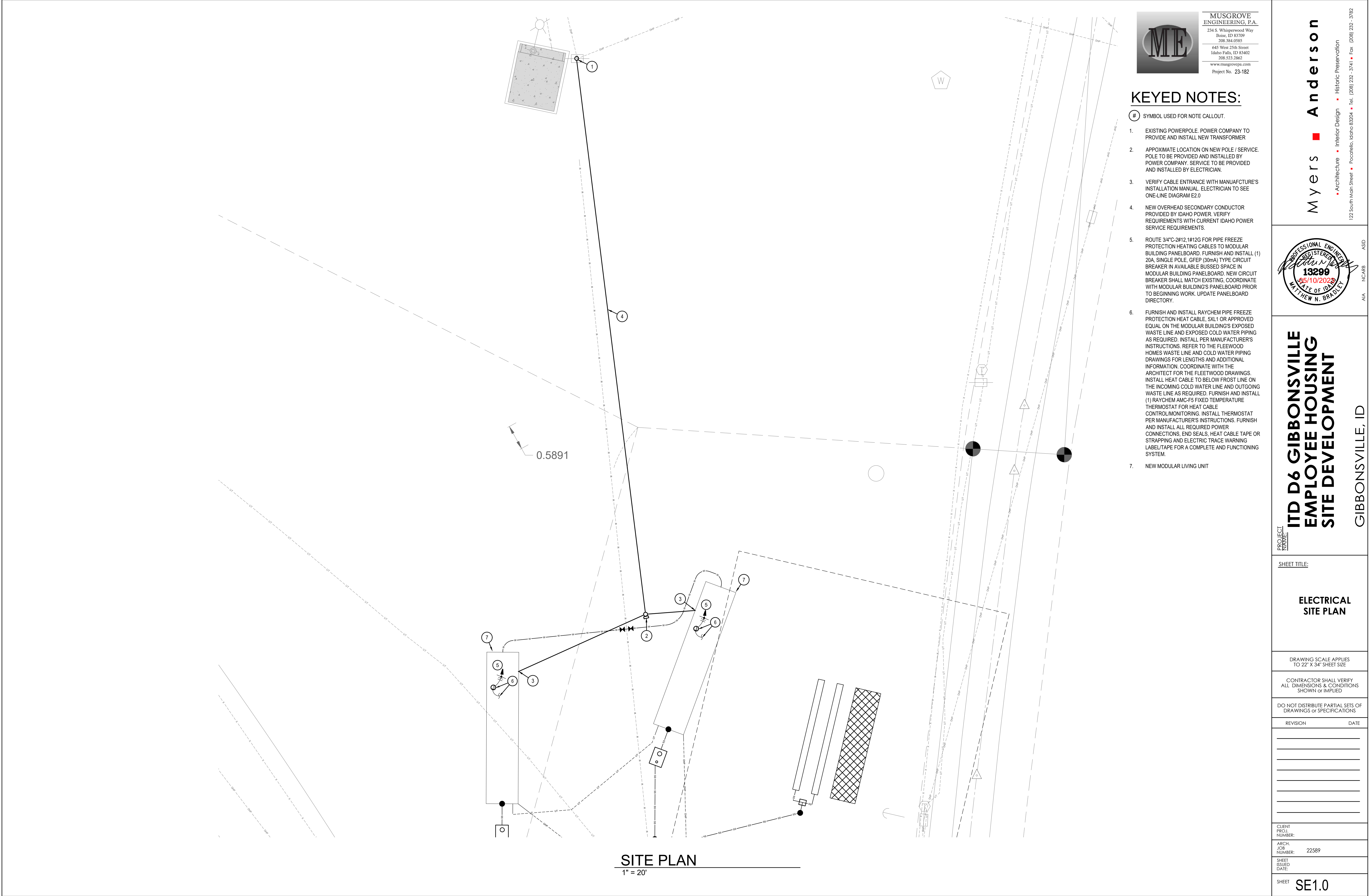
Architecture Interior Design Historic Preservation

122 South Main Street
Pocatello, Idaho 83204
Tel. (208) 232-3741
Fax. (208) 232-3782

GIBBONSVILLE, ID

REGISTERED PROFESSIONAL ENGINEER
13299
STATE OF IDAHO
MATTHEW N. BRADLEY

ASD
AIA
NCARB



SITE PLAN
1" = 20'

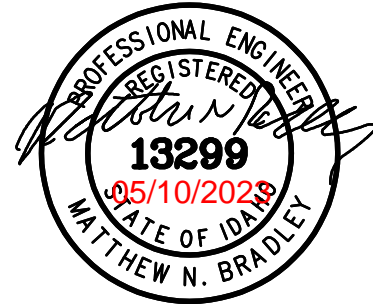


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Idaho Falls, ID 83402
208.523.2862
www.musgrovepa.com
Project No. 23-182

KEYED NOTES:

SYMBOL USED FOR NOTE CALLOUT.

- EXISTING POWERPOLE, POWER COMPANY TO PROVIDE AND INSTALL NEW TRANSFORMER
- APPOXIMATE LOCATION ON NEW POLE / SERVICE. POLE TO BE PROVIDED AND INSTALLED BY POWER COMPANY. SERVICE TO BE PROVIDED AND INSTALLED BY ELECTRICIAN.
- VERIFY CABLE ENTRANCE WITH MANUFACTURE'S INSTALLATION MANUAL. ELECTRICIAN TO SEE ONE-LINE DIAGRAM E2.0
- NEW OVERHEAD SECONDARY CONDUCTOR PROVIDED BY IDAHO POWER. VERIFY REQUIREMENTS WITH CURRENT IDAHO POWER SERVICE REQUIREMENTS.
- ROUTE 3/4" C-2H12, 1#12G FOR PIPE FREEZE PROTECTION HEATING CABLES TO MODULAR BUILDING PANELBOARD. FURNISH AND INSTALL (1) 20A, SINGLE POLE, GFEP (30mA) TYPE CIRCUIT BREAKER IN AVAILABLE BUSSED SPACE IN MODULAR BUILDING PANELBOARD. NEW CIRCUIT BREAKER SHALL MATCH EXISTING. COORDINATE WITH MODULAR BUILDING'S PANELBOARD PRIOR TO BEGINNING WORK. UPDATE PANELBOARD DIRECTORY.
- FURNISH AND INSTALL RAYCHEM PIPE FREEZE PROTECTION HEAT CABLE, 5XL1 OR APPROVED EQUAL ON THE MODULAR BUILDING'S EXPOSED WASTE LINE AND EXPOSED COLD WATER PIPING AS REQUIRED. INSTALL PER MANUFACTURER'S INSTRUCTIONS. REFER TO THE FLEEWOOD HOMES WASTE LINE AND COLD WATER PIPING DRAWINGS FOR LENGTHS AND ADDITIONAL INFORMATION. COORDINATE WITH THE ARCHITECT FOR THE FLEEWOOD DRAWINGS. INSTALL HEAT CABLE TO BELOW FROST LINE ON THE INCOMING COLD WATER LINE AND OUTGOING WASTE LINE AS REQUIRED. FURNISH AND INSTALL (1) RAYCHEM AMC-F5 FIXED TEMPERATURE THERMOSTAT FOR HEAT CABLE CONTROL/MONITORING. INSTALL THERMOSTAT PER MANUFACTURER'S INSTRUCTIONS. FURNISH AND INSTALL ALL REQUIRED POWER CONNECTIONS, END SEALS, HEAT CABLE TAPE OR STRAPPING AND ELECTRIC TRACE WARNING LABEL/TAPE FOR A COMPLETE AND FUNCTIONING SYSTEM.
- NEW MODULAR LIVING UNIT



PROJECT NAME:
**ITD D6 GIBBONSVILLE
EMPLOYEE HOUSING
SITE DEVELOPMENT**

GIBBONSVILLE, ID

SHEET TITLE:

**ELECTRICAL
SITE PLAN**

DRAWING SCALE APPLIES
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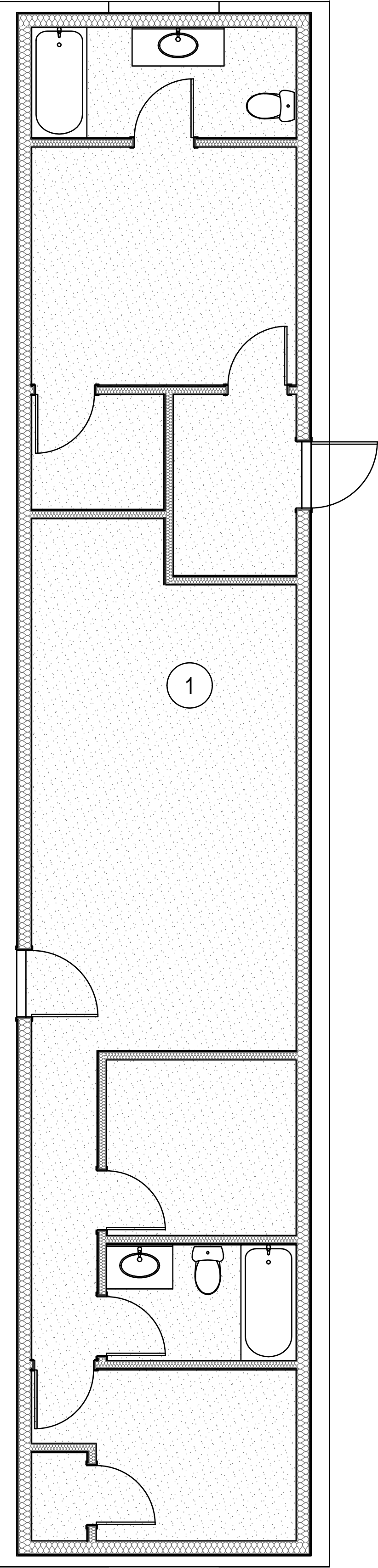
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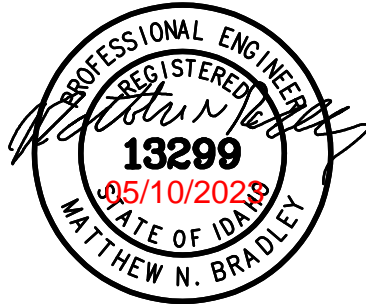
POWER PLAN
1/4"=1'



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Project No. 23-182

KEYED NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
1. ALL FIXTURES ARE PROVEDED AND INSTALLED IN ACCORDANCE WITH THE BUILDING MANUFACTURE'S INSTALLATION MANUAL. NO ADDITIONAL WORK SCOPE IS REQUIRED



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PROJECT NAME:
**ITD D6 GIBBONSVILLE
EMPLOYEE HOUSING
SITE DEVELOPMENT**
GIBBONSVILLE, ID

SHEET TITLE:

POWER PLAN

DRAWING SCALE APPLIES TO 22" X 34" SHEET SIZE

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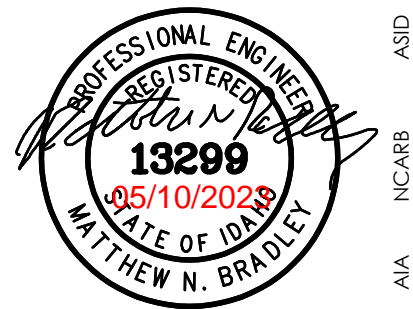
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PROJECT NAME: **ITD D6 GIBBONSVILLE
EMPLOYEE HOUSING
SITE DEVELOPMENT**
GIBBONSVILLE, ID

SHEET TITLE:

**ONLINE DIAGRAM
& TRENCH DETAIL**

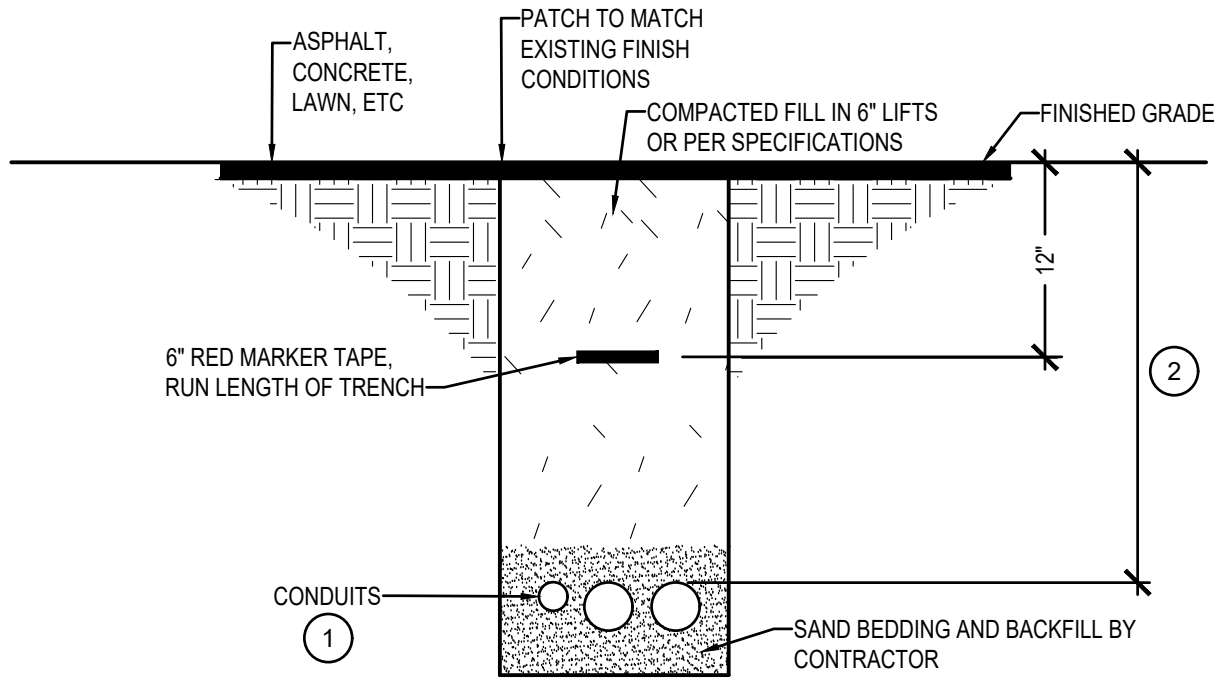
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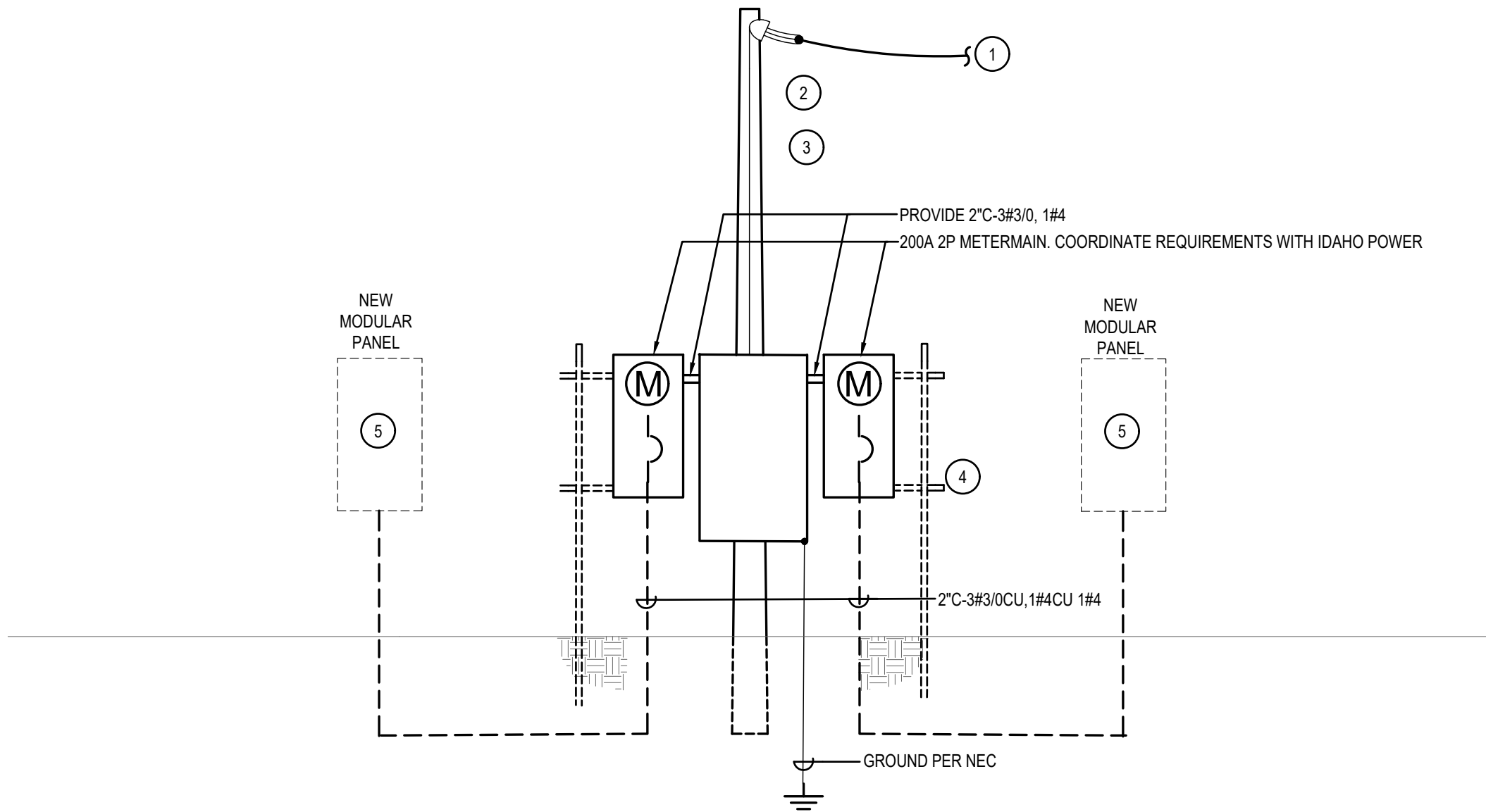


DETAIL NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- IF MULTIPLE CONDUITS SHARE TRENCH, PROVIDE SPACING BETWEEN CONDUITS. PROVIDE ZIP TIES, AND TIE ALL CONDUITS TOGETHER TO ENSURE STABILITY.
 - BURIAL DEPTH TO BE VERIFIED WITH UTILITIES AND AUTHORITY HAVING JURISDICTION: ELECTRICAL FEEDERS, COMMUNICATIONS: 24" MINIMUM
UNDERGROUND SECONDARY: 30" MINIMUM
UNDERGROUND PRIMARY: 42" MINIMUM

TRENCH DETAIL

NTS



ONLINE DIAGRAM

NTS

DETAIL NOTES:

- # SYMBOL USED FOR NOTE CALLOUT.
- OVERHEAD UTILITY CONDUCTORS TO WEATHERHEADS BY IDAHO POWER COMPANY. SHOWN FOR REFERENCE ONLY.
 - NEW CERTIFIED WOOD POLE PROVIDED AND INSTALLED BY IDAHO POWER. COORDINATE WITH IDAHO POWER PRIOR TO BEGINNING WORK.
 - FURNISH AND INSTALL PARALLEL RUNS OF 2" CONDUIT EACH WITH 3#3/0 COPPER CONDUCTORS FROM THE METER PACK UP WOOD POLE TO WEATHERHEADS AS REQUIRED.
 - FURNISH AND INSTALL STRUT RACK FOR MOUNTING ELECTRICAL EQUIPMENT SHOWN. REFER TO THE ELECTRICAL SITE PLAN FOR LOCATION AND ADDITIONAL INFORMATION.
 - MODULAR BUILDING PANELBOARD. REFER TO THE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.